

INDEX

Fifty-second Quarto Volume—January 1, 1912 to June 30, 1912.

AUTHORS

- Acworth, W. M., 470
 Archibald, J. D., 98
- Bacon, Charles G., Jr., 371
 Baird, D. C., 908
 Ballantine, N. D., 141
 Bateman, E., 505
 Benjamin, C. H., 1613
 Berry, J. B., 468
 Beyer, O. S., Jr., 1108
 Bishop, Avard Longley, 960
 Black, R. P., 1111
 Bougher, J. T., 989
 Bohl, William E., 1121
 Bowser, J. T., 1117
 Bremmer, Geo. H., 291
 Brentnall, Louis, 1614
 Brown, Paul W., 51
 Brown, Stephen H., 83
 Browne, Gilbert G., 1229
 Burlingame, Charles, 834
 Burrell, F. L., 99
- Campbell, E. H., 1164
 Carruth, Arthur J., Jr., 1228
 Carter, Charles Frederick, 1227
 Caruthers, C. H., 269
 Chenoweth, E. G., 1561
 Church, S. R., 298, 904
 Clay, C., 908
 Clough, A. M., 293, 1107
 Cobb, N. T., 1147
 Collett, L. H., 743
 Connors, M. S., 675
 Cook, C. C., 1565
 Cook, William W., 190
 Corcoran, George, 1106
 Crabbs, F. E., 309, 910, 1567
 Cushing, W. C., 374
- Davis, L. D., 272
 Delano, F. A., 883
 Dixon, F. H., 466
 Dudley, P. H., 948
 Dunn, Samuel O., 951
- Fay, T., 788
 Finan, J. P., 418
 Finley, W. W., 1000
 Finley, W. H., 913
 Foote, A. M., 487
 Forman, H. W., 467
 Francis, J. R., 1114
 Freeman, Lewis R., 898
- Fritch, L. C., 204, 468, 847
 Fry, Lawford H., 1536
- Gaines, F. F., 1035
 Gaines, Morrell W., 10, 1599
 Ganley, M., 97, 496, 920
 Gardiner, George S., 83
 Gauley, M., 1575
 Gilman, C. R., 149
 Godley, Philip, 1085
 Goltra, W. F., 59, 292
 Goss, W. F. M., 419, 1347
 Greenland, W. W., 1111
 Greensfelder, A. P., 1345
 Gulley, E. W., 908
- Haggander, G. A., 307
 Hamilton, P. H., 97, 293, 294, 909, 1571
 Hansen, A. E., 905
 Harvey, D. F., 1567
 Henkel, C. C., 907
 Hodges, George, 1594
- Isaacs, John D., 1086
 Ives, D. O., 988
- Job, Robert, 1227
 Jonah, F. G., 503
 Jones, S. J., 787
- Keough, E., 1566
 King, Coleman, 1117
 Kirby, John, Jr., 370
- Lawrence, F. E., 1104
 Lawton, L. C., 910
 Le Boutillier, G., 502
 Leroy-Beaulieu, Paul, 1047
 Lewis, E. R., 98, 302, 310, 500, 1566
 Lindsay, C. E., 1112
 Low, Emile, 1149
 Lowe, George E., 905
- MacFarland, H. B., 750
 McAndrews, P. J., 1104, 1571
 McNally, J. F., 1119
 McPherson, Logan G., 1541
 McVeigh, E. J., 5, 763
 Mahana, C. G., 498
 Moore, G. F., 469
 Morgan, J. J., 906, 1106
 Morse, C. A., 888
 Neill, Charles P., 759
 Oxley, A. C., 1158
- Palmer, A., 1103
 Patterson, Frank M., 1036
 Payne, J. L., 244
 Peter, S. B., 1106
 Plant, L. G., 1186
 Potter, W. B., 151
 Potter, William J., 1574
 Prouty, Charles A., 803
- Rice, F. C., 417
 Ripley, William Z., 19, 48, 87
 Roberts, G. W., 1565
 Ross, Walter L., 333
 Rowell, B. C., 230
 Ryder, Gilbert E., 156
- Schenck, A. A., 1124
 Schmidt, Edward C., 44
 Seley, C. A., 90
 Shannahan, J. H. K., Jr., 1564
 Sterling, E. A., 231
 Stillman, Howard, 482
 Stuart, J. C., 947
 Sugrue, J. F., 270
 Summers, E. W., 329
 Swartz, A., 1105
 Sweeney, James, 906
- Taylor, J. L., 293, 1575
 Tierney, William J., 882
 Tobin, J. E., 907
 Turner, L. H., 947
- Uniacke, R. F., 1603
- Van Allen, Clifford, 141
 Van Auken, A. M., 427
 Van Langendonck, C., 235, 425
 Voorhees, Theodore, 788
- Walker, W. K., 1105
 Warner, Paul T., 755
 Waterman, J. H., 300
 Weiss, Howard F., 918
 Whinery, S., 1594
 White, R. C., 99
 Whiting, Frank V., 432
 Whitney, M. B., 140, 909
 Williamson, A. S., 685
 Wollner, Wm. S., 494
 Woslyng, P. J. M., 1564
- Yeomans, George G., 229, 1539

GENERAL INDEX

[Illustrated articles are indicated thus*; Editorials thus†; Letters to the Editor thus‡.]

A

Abutment (See Bridges and Buildings)

Accident:

- Accidents in 1911 and 1912, 1144†
- Analysis of American Railway Accidents, 230
- Banner for Accident Record, C. & N. W., 923
- Boston & Maine in Hoosac Tunnel, 350, 395, 1223†, 1234, 1550
- British Railway Accidents, 1211
- Car Inspector's Important Duties, 743†
- Chicago, Milwaukee & St. Paul at Odessa, Minn., 84*, 137†, 152, 190†, 269†, 923, 985†, 1010, 1616
- Cost of Workmen's Compensation, 897
- Conductor Convicted of Manslaughter in Accident, 349
- Cumberland Valley Accident Record, 1352
- Death Roll Decrease, 118
- Derailments Due to Defects in Roadway, 42†
- Donatto, Tony, 1249
- Excessive Speed and Railway Accidents, 417†, 668†, 674†
- False Statement of Conditions, 80†, 412†
- First Aid Boxes, 665†, 809
- Great Northern near Doyon, N. D., 311
- Illinois Central at Kimmundy, Ill., 135†, 137†, 142*, 209, 809, 985†, 1010
- Illinois Central Reduction of Accidents, 1018
- Industrial Accidents, Prevention of, 432*
- Injuries to Persons and Damage to Freight, 848
- I. C. C. Bulletin No. 41, 430; No. 42, 1059, 1090
- I. C. C. Reports, 467†
- Lehigh Valley, Broken Rail, 267†, 280*
- Long Island R. R. Accident Record, 1352
- Mail Car Accidents, 1126
- Malmislaett, Sweden, 1578
- Monthly Summaries: December, 1911, 154, 351; January, 387, 694; February, 689; March, 962; April, 1192; May, 1546
- New Orleans & Northeastern, near Hattiesburg, Miss., 1061
- Newspaper Accounts, 1330†
- New York Central, near Collinwood, Ohio, 508
- New York Central, near Hyde Park, N. Y., 508, 692
- N. Y. N. H. & H., near Leet's Island, Conn., 1012*
- Northern of France, near Paris, 1210
- Pennsylvania at Crestline, Ohio, 438
- Pennsylvania, near Larwill, Ind., 349
- Pennsylvania, at Warrior Ridge, Pa., 347*
- Publicity to Accidents on the Sou. Pac., 1168
- Rail Breakage and Wheel Loads, 785†
- Rail Failures Due to Eccentric Loading, 888*, 901†
- Railway Accident Situation, 1225†, 1237
- Reward for Preventing Accident on the Temiskaming & Northern Ontario, 1247
- Reward for Saving Train, 248
- Reward Offered for Conviction of Wreckers, 26
- Safety Bureau on Chicago Great Western, 26, 855
- Safety Campaign, A. T. & S. F., 311
- Safety Committees; Baltimore & Ohio, 827†, 846
- Safety Committee, C. & N. W., 925
- Safety Committees; Chicago & Western Indiana, 1618
- Safety Committee; C. B. & O., 64
- Safety Committee; D. L. & W., 1126
- Safety Committees; Elgin, Joliet & Eastern, 1247
- Safety Committee; Jonesboro, Lake City & Eastern, 767
- Safety Committees; M. K. & T., 438
- Safety Committees; New York Central Lines, 1249
- Safety Committees; Pennsylvania, 768
- Safety Committees; Wheeling & Lake Erie, 856
- Safety Committees Reducing Accidents, 187†, 208
- Safety First on the Union Pacific, 1017
- Safety Medal for the Pennsylvania, 119, 164
- Steel Passenger Cars in Collision, 269†, 324†
- Steel Wheels, Low Cost of, 412†, 466†
- Stopping Train from Car, 665†
- Trespassers, 411†, 412†, 432, 440, 693, 968, 1082†, 1455†
- Wabash, near West Lebanon, Ind., 508
- Wheel Loads and Transverse Rail Fissures, 468†

Accounting:

- Am. Ry. Eng. Assoc. Report on Records and Accounts, 635*
- Daily Statement of Transportation Expenses, 93*
- Form for Annual Reports Prescribed by Law in England, 783†, 801

Accounting (Continued):

- Freight Car Repair Costs, Fallacies in, 141†
- Full Cost of Freight Movement, 141†
- Misleading Statistics, 186†
- Supply Department Accounting, 1160

Acetylene (See Lighting)

Acme Supply Co.:

- Acme Sectional Diaphragm, 1425*
- Asco Weatherstrip, 1454*
- Ladder for Steel Box Cars, 1509*

Advertising, 1614

Aeroplane:

- Flights, 118, 208
- London to Paris, 510
- Pau to Portiers, 510

Agriculture:

- Baltimore & Ohio Bureau of Agriculture, 1352
- Boll Weevil, Campaign Against, 28
- Canadian Colonization, 1251
- Canal Zone, 1214
- Dairy Train, 121
- Demonstration Trains, 29, 120, 166, 211, 250, 313, 443, 512, 695, 696, 771, 772, 970, 1019
- Encouraging Settlement on Western Lands, 1247
- Good Roads Useless without Grade Crossing Elimination, 81†
- Good Roads, 509, 811
- Instruction of the Pennsylvania Railroad, 29
- Natural Resources Department on the Can. Pac., 311
- Pennsylvania Railroad's Trees, 1351
- Promotion, 1172
- Success of Southern Railway, 67

Air Brake (See Brake)

Air Brake Association: Annual Meeting, 1093*

Ajax Forge Co.: Manganese Steel One-Piece Guard Rail, 496*

Alaska: Proposal for a Government Railway in Alaska, 350

Alcohol Heating & Lighting Co.: Alcohol Heater Car, 1244*

American Car & Foundry Co.:

- Steel Parlor Cars; Long Island, 471*
- Steel Underframe Tank Car, 1278*
- Well Car of 75 Tons Capacity; Erie, 1388*

American Iron & Steel Mfg. Co.: Universal Combination Screw Spike, 922*

American Locomotive Co.:

- Mallet; Ches. & Ohio, 797*
- Mallet; Pennsylvania R. R., 377*
- Mikado; Ches. & Ohio, 201*
- Mikado; Erie, 241*
- Mikado; Missouri Pacific, 55*, 248
- Most Powerful Locomotive in the World; Virginian, 1321*
- Pacific Type Locomotive Record on the Erie, 739†

American Railway Association:

- Charge for Interchanged Freight Cars, 1579
- Rail Conference in New York, 769
- Railway Accident Situation, 1225†, 1237
- Spring Meeting, 1098

American Railway Bridge & Building Association:

- Committee Appointments, 100
- Damage to Yards by Mississippi Floods, 922, 1111
- Lime Wash for Fire Prevention, 1125

American Railway Engineering & Maintenance of Way Association (See American Railway Engineering Association)

American Railway Engineering Association:

- Annual Dinner, 612†, 642*
- Committee Assignments, 901†, 916
- Committee Reports, 711*
- Committee Work, 612†
- Convention, 485†
- Financial Difficulties, 566†
- Founders, 552
- Gravel Washing Plant, 604*
- Locomotive Boiler Corrosion and Treated Water, 1114
- National Railway Appliances Association Exhibit, 39†, 65, 289†, 547, 553*, 550, 568
- Officers and Past Presidents, 552, 650*
- Preparation of Specifications, 565†
- President's Address, 569
- Proceedings, 569*, 613*, 714*
- Report on Ballast, 584*
- Report on Wooden Bridges and Trestles, 583
- Report on Buildings, 711†, 718*
- Report on Conservation of Natural Resources, 712†, 714*
- Report on Grading of Lumber, 726*
- Report on Economics of Railway Location, 712†, 725*
- Report on Electricity, 611†, 636*
- Report on Iron and Steel Structures, 580*
- Report on Masonry, 628*
- Report on Rails, 611†, 616
- Report on Records and Accounts, 635*
- Report on Roadway, 621*
- Report on Rules and Organization, 575*
- Report on Signs, Fences and Crossings, 711†, 716*

American Railway Engineering Association

(Continued):

- Report on Signals and Interlocking, 565†, 577*
- Report on Track, 592, 613
- Report on Ties, 566†, 586*
- Report on Uniform General Contract Forms, 721*
- Report on Water Service, 611†, 623*
- Report on Wood Preservation, 729*
- Report on Yards and Terminals, 614*
- Valuable Work, 1559†

American Railway Master Mechanics' Association:

- Baseball Game, 1419, 1435*
- Co-Operation with Other Mechanical Associations, 1455†
- Concluding Exercises, 1526
- Convention Twenty Years Ago, 1431†
- Crawford, David Francis, 1526
- Entertainment at Convention, 877†, 927, 1485†
- Exhibit of the Railway Supply Manufacturers' Association, 1283*, 1324*, 1395*, 1423*, 1449*, 1481*, 1508*, 1529*
- Mallet Locomotive, Care of, 1431†
- Past Presidents, 1529
- President Bentley's Address, 1456†, 1460*
- Proceedings, 1460*, 1487*, 1513*
- Registration, 1444, 1474, 1484, 1504
- Report on Advisory, Technical, 1463
- Report on Consolidation, 1484†, 1487
- Report on Contour of Tides, 1483†, 1497*
- Report on Design, Construction and Inspection of Locomotive Boilers, 1485†, 1487*
- Report on Engine Fender Wheels, 1526
- Report on Flange Lubrication, 1512†, 1513*
- Report on Increased Power Obtained with Superheat, 1483†, 1499
- Report on Main and Side Rods, 1457†, 1467*
- Report on Maintenance of Superheater Locomotives, 1511†, 1518*
- Report on Mechanical Stokers, 1456†, 1463*
- Report on Minimum Requirements for Headlights, 1518
- Report on Safety Valves, 1455†, 1468*
- Report on Standardization of Tinware, 1518
- Report on Steel Tires, 1483†, 1501*

American Saw Mill Machinery Co.: Portable Saw Mill, 1125*

American Society for Testing Materials:

- Specifications for Steel, 796
- Steel Wheel Designs, 365†, 369†, 371*

American Society of Engineering Contractors:

- Cement Gun, 489*

American Society of Mechanical Engineers: Oil

- Burning Locomotives, 482*

American Steel Foundries:

- Sampson Bolster, 1449*
- Seventy-Ton Pedestal Jaw Truck, 1396*
- Vulcan Cast Steel Brake Beam, 1287*

American Valve & Meter Co.: Switch Lock, 921*

American Vanadium Co.: Vanadium Exhibit, 1482*

American Water Softener Co.: Purified Water

- Supply, 661

American Wood Preservers' Association:

- Annual Convention, 95†, 108
- Creosote and Creosoting Oils, 113
- Creosote Specifications and Analysis, 113, 290†, 298

Cutting and Seasoning Timber, 110

Doubling Strength of Ties, 1574

Efficiency in Plant Operation, 111

Inspectors and Inspection at Commercial

Plants, 115

Manufacture of Cross-Ties for Preservative

Treatment, 918*

Proceedings, 904

Production of the Wooden Cross Tie, 108

Scientific Management of Timber Preserving

Plants, 110

Treating Seasoned vs. Unseasoned Ties, 115

Annual Reports (See names of companies; also

Finance)

Apprentice (See Education)

Arbitration (See Employee)

Arch (See Bridges and Buildings)

Archibald, Judge, Charges Against, 1063, 1126,

1168, 1248, 1616

Ash Pan (See Locomotive Firebox)

Associations (See names)

Association of Railway Electrical Engineers:

Semi-Annual Meeting, 1417, 1432†

Association of Railway Telegraph Superintend-

ents:

Convention, 1338

Main Line Relays with Telephone Selectors,

1338

Maintenance of Telegraph Lines, 1340

St. Louis Terminal Telegraphs and Tele-

phones, 1340

Telegraph Traffic, 1341

Telephone on the Santa Fe, 1339

Atchison, Topeka & Santa Fe:

Bridge at Sibley, Mo., 334

Dynamometer Car, 750*

Atchison, Topeka & Santa Fe (Continued):

- Flags Abolished, 26
- Maintenance of Way Department Rule Book, 912
- Safety Campaign Results, 311
- Smoke Abatement Tests on Switching Locomotives, 343*, 419†
- Train de Luxe, Ventilation, 23*
- Atlantic Coast Line: Tie-Treating Plant at Gainesville, 1555
- Atlantic Express Company, 28
- Atlas Preservative Co. of America: Chemical Weed Destroyer and Track Preservative, 737
- Auditing (See Accounting)
- Autogenous Welding (See Welding)
- Automatic Stops (See Safety Appliances)
- Axle (See Wheel)

B

- Baggage: Excess Baggage Rule Conferences, 211
- Baldwin Locomotive Works:
 - B. L. W. Loyal Legion, 351*
 - Direct-Current Freight Locomotive; Oakland, Antioch & Eastern, 1528*
 - Eight-Motor Articulated Electric Locomotive; N. Y. N. H. & H., 1608*
 - Mikado; C. B. & Q., 1006*
 - Mikado; Erie, 241*
 - Road Tests of Mallet and Consolidation Locomotives, 1476
 - Triplex Compound Locomotive, Proposed, 851*

Ballast:

- Gravel Washing Plant, 604*
- Handling Stone: Ballast, 1107*

Baltimore & Ohio:

- Bureau of Agriculture, 1352
- Chicago Organization, 925
- Fuel Economy, 1511†
- Safety Committees, 827†, 846
- Strauss Bascule Bridge Over the Calumet River at South Chicago, 662*
- Timber-Treating Plant, 1016
- Track Scale, 272*

Baltimore & Ohio Southwestern: Manual Block System on Single Track, 890

Barney & Smith Car Co.: History, 1471

Bascule (See Bridges & Buildings)

Battery: (Storage Battery, 733)

Bearings:

- Inspecting Side Bearing Motion, 1013*
- Machine for Testing Journal Friction, 1430*
- Pressure on Journal-Bearing Wedges, 1280†

Belt Railway of Chicago: Joint Ownership of the Belt Railway of Chicago, 548, 693

Bessemer & Lake Erie: All-Steel Box Car, 677*

Bills of Lading: Bureau in Baltimore, 397

Bingham & Garfield, 744*

Block Signal (See Signal, Block)

Block Signal & Train Control Board:

- Inspection Reports, 885
- Manual Block Systems on Single Track, 890

Boiler (See Locomotive Boiler)

Bolster (See Truck)

Boston & Maine:

- Accident in Hoosac Tunnel, 350, 395, 1223†, 1234, 1550
- Electric Railway up Mount Washington, 1126
- Lease to N. Y. N. H. & H., 856, 929, 1061, 1127, 1133, 1168
- Water Tower, 736*

Boston Elevated:

- Jointed Coach, 1247
- Losses by Theft, 1579

Brake (See also Safety Appliances; also Air Brake Association; also Master Car Builders' Association):

- Air Brake Inspection and Tests, 1093
- Brake Shoe Tests, 667†
- Buffalo Adjustable Brakehead, 1510*
- Cresco Brake Beam Support, 1428*
- Duplex Brake Beam Strut, 1287*
- Friction and Wear of Brake Shoes as Affected by the Wheel Load, 1094
- Hose (See Hose)
- Improved Brake Methods, 1266†
- Increase Brake Power, 1265†
- Malleable Iron Hand Brake Fittings, 1426*
- Pipe and Pipe Fittings, 1095
- Quick Action of Freight Triples, 1094
- Slack Adjusters for Freight Cars, 1143†
- Vulcan Cast Steel Brake Beam, 1287*
- Westinghouse PC Equipment, 1095

Bridge and Buildings (See also Grade Separation; also American Railway Engineering Association):

- All-Steel Coaling Station, 564*
- Coaling Station, Automatic Balanced Bucket Type, 658*
- Coaling Station; L. S. & M. S., 766*
- Coaling Station, Sauerman, 660*
- Bascule Bridge over Gatun River, Panama Railroad, 295*
- Bascule Bridge over Harbor Channel at Copenhagen, 425*
- Bascule Bridges, Buffalo Ship Canal, 1148*
- Bridge Floor; Waterproofing Design, 560
- Bridge Kink Competition (See Competition)
- Bridge Numbering, 1576
- Bridges on Copper River & Northwestern, 191*
- Bridges on Milwaukee, Sparta & Northwestern, 365†, 382*

Bridges and Buildings (Continued):

- Bridges on New York, Westchester & Boston Bridges, 1225†, 1229*
- Bridges on the Oregon Trunk, 680*, 756*
- Bridges on Rock Island-Michigan Central Relocation, 789*
- Calculator, Novel, 607
- General Office Building, Omaha, Neb.; Union Pacific, 18*
- Grade Separation at Grand Crossing, 990*
- Iowa River Bridge; C. R. I. & P., 101*
- Iron Form for Concrete Arches and Pipe, 1123*
- Key West Extension Bridge, Florida East Coast, 1036*
- Little Salmon River Bridge; National Transcontinental, 1603*
- Mississippi River and Ohio River Bridges, 326†
- Nemadji River Bridge, M. St. P. & S. S. M., 842*
- Obstructions in Bridge Entrances, 1558†
- Pile Casing, Sectional Concrete, 558
- Piles, Concrete, 326*
- Portable Steel Buildings for Maintenance Forces, 494*
- Radeliffe Viaduct, Great Northern of England, 235*
- Renewing Pins in a Truss Bridge, 116*
- Replacing Steel Bridges on the Buffalo & Susquehanna, 920*
- Rolling Stock, Stations and Dwellings, 1615*
- Sawing Piling Under Water, 117*
- Scherzer Rolling Lift Bridges, 559, 610*, 738*
- Sibley, Mo., Bridge, A. T. & S. F., 334
- Snake River Bridge; Harriman Lines Cut-Off, 1187*
- Storage Houses, Sectional Steel, 657*
- Strauss Bascule Bridge of Baltimore & Ohio over Calumet River, 662*
- Strauss Bascule Bridge of Canadian Pacific at Sault Ste. Marie, 662*
- Trestles on the Bingham & Garfield, 744*

Brooklyn Rapid Transit Co.: Stepless Car, 1350

Brotherhood of Locomotive Engineers:

- Elections, 1210
- Movement for Standard Wages, 208

Brownell Improvement Co.: Concrete Distributing Tower, 499*

Browning Engineering Co.: Self-Propelling Wrecking Crane and Steam Shovel, 304*

Buffalo & Susquehanna: Replacing Steel Bridges, 920*

Buffalo Brakebeam Co.: Buffalo Adjustable Brakehead, 1510*

Buffalo Creek Railway: Bridge Over Buffalo Ship Canal, 1148*

Buffalo Forge Co.: Spiro Turbine, 348*

Building (See Bridges and Buildings)

Bureau of Explosives (See American Railway Association)

Bureau of Labor: Workings of the Erdman Act, 759

Bureau of Railway Economics:

- Bases of Taxation, 186†
- Employees' Wage Increase, 510
- Revenues and Expenses in December, 515; January, 773; February, 1130; March, 1252
- Statistics for 1910, 886

Burr Machine Co.: Dynamometer Car, A. T. & S. F., 750*

Business Situation (See Finance)

Butte, Anaconda & Pacific: Electrification, 247, 1578

C

California Industrial Accident Board, 1059

Cambria Steel Co.: Cambria Steel Axles, 1454*

Canada:

- American Train Crews, 1210
- Canadian Railways in 1911, 244
- Canadian Railway Subsidies, 768
- Cars Retained in the United States, 769
- Colonization, 1251
- Joint Commission with United States, Idea Abandoned, 67
- Locomotive Inspectors, 934
- Railway Policy and Its Results, 1331†
- Railways Ordered to Furnish Equipment Figures, 1022
- Strikers Must Be Reinstated Before New Bonds May Be Issued, 767
- White Pass & Yukon Rate Case, 771, 839

Canadian Pacific:

- Department of Natural Resources, 311
- Embankments and Foundations, Toronto-Sudbury Branch, 1158*
- Facilities at St. John, N. B., 813
- Colonization Plan, 973
- Headlight Numbers, 1241*
- Oil Fuel for Locomotives, 208
- Strauss Bascule Bridge at Sault Ste. Marie, 662*
- Yard Reconstruction at Fort William, Ont., 153*

Canal (See Waterways)

Canton Culvert Co.: Sheet Metal for Railway Purposes, 734

Capitalization (See Finance)

Car:

- Alcohol Heater Car, 1244*
- Automobile Car, C. M. & St. P., 474*
- Barber 50-Ton Steel Flat Car, 1326*
- Bolster (See Truck)
- Brake (See Brake)
- Capacity Marking of Cars, 1413*

Car (Continued):

- Car Design in the Technical Schools, 841
- Cleaning (See Sanitation)
- Composite Gondola Car, New York Central Lines, 1286*
- Damage to Cars by Unloaders, 1367†, 1376*
- Defective Box Cars and Damaged Freight, 827†, 829†, 835*, 878†, 892*, 944†, 947†, 954*, 987†, 1002*, 1029†, 1035†, 1050*, 1081†
- Dining Car; Pennsylvania, 1616
- Door (See Door)
- Dynamometer Car, A. T. & S. F., 750*
- Electric Lighting Car, 805
- End Frames for Passenger Cars, 1430*
- Gas-Electric Motor Car; St. L. & S. F., 1324*
- Gasolene (See Motor Car)
- Ice Car; Central of New Jersey, 1239*
- Inspection (See Motor Car)
- Interchange (See Car Service)
- Interior Finish, 1424
- Jointed Coach, Boston Elevated, 1247
- Journal (See Bearings)
- Ladder for Steel Box Cars, 1509*
- Lighting (See Lighting)
- Motor (See Motor Car)
- Numbers, 1241*
- Overhead Inspection of Box Cars, 1368†, 1369†, 1378*
- Painting (See Paint)
- Passenger Car; N. Y. W. & B., 1334*
- Plush for Seats, 1395
- Pouch Rack Automatic, 1510*
- Private Car of B. F. Yoakum, 15*
- Rail Motor (See Motor Car)
- Repairs, 1298†
- Safety Appliances (See Safety Appliances)
- Seats, 1327
- Seventy-Ton Ore Cars, 1398*
- Side Framing, 1427*
- Steel Box Car, Bessemer & Lake Erie, 677*
- Steel Mail Car Specifications, 394, 809
- Steel Observation Car, Illinois Central, 50*
- Steel Parlor Cars; Long Island, 471*
- Steel Underframe Tank Car, 1278*
- Stepless Car; Brooklyn Rapid Transit, 1350
- Tank Cars, 1407
- Track Inspection Car; Erie, 1561*
- Truck (See Truck)
- Underframe, Steel and Truck Bolster for Freight Car, 1328*
- Valve (See Valve)
- Ventilation (See Ventilation)
- Wheel (See Wheel)

Car, Freight:

- Alcohol Heater Car, 1244*
- Barber 50-Ton Steel Flat Car, 1326*
- Bessemer & Lake Erie, Steel Box Car, 677*
- Central of New Jersey, Ice Car, 1239*
- C. M. & St. P.; Automobile Car, 474*
- Erie; Well Car, 1388*
- New York Central Lines Composite Gondola Car, 1286*
- Seventy-Ton Ore Cars, 1398*
- Tank Cars, 1278*, 1407

Car, Passenger:

- Boston Elevated, Jointed Coach, 1247
- Brooklyn Rapid Transit Stepless Car, 1350
- Illinois Central; Steel Observation Car, 50*
- Long Island; Steel Passenger Cars, 471*
- New York, Westchester & Boston Suburban Car, 1334*
- Pennsylvania; Dining Car, 1616
- St. L. & S. F. Gas-Electric Motor Car, 1324*
- Yoakum's, B. F., Private Car, 15*

Carborundum Co.: Grinding Wheel Records, 1530

Car Inspection and Interchange Bureau (See Car Service)

Car Records (See Yards and Terminals)

Car Service (See also Interstate Commerce Commission Rulings):

- Car Interchange Ethics, 186†
- Car Record for Shippers and Consignees, 1618
- Car Shortage, Exceptional, 366†
- Car Shortage, Future Danger, 378
- Car Surpluses and Shortages Bi-Weekly, 124*, etc.
- Charge for Interchanged Freight Cars, 1579
- Chicago Car Interchange Bureau, 119, 238*
- Defective Box Cars and Damaged Freight, 827†, 829†, 835*, 878†, 892*, 944†, 947†, 954*, 987†, 1002*, 1029†, 1035†, 1050*
- Demurrage Adjusters, 742†
- Demurrage Adjustment by I. C. C. Representatives, 459†
- Demurrage Charges, 1212
- Demurrage Difficulties, 988†
- Demurrage Rates, 515, 860
- Demurrage Rules, 788†, 1085†, 1098
- Denver Joint Car Inspection and Interchange Bureau, 438
- Freight Car Balance and Performance Monthly, 166*, etc.
- Interline Home Route Card, 787†, 989†
- M. C. B. Defect Cards, 393, 439
- M. C. B. Rules, Enforcing, 470†
- Pooling Cars, 769, 833†, 1186†
- Rules for Marking, 1099
- Safety Appliance Act and Interchange, 1297†
- Car Shortage (See Car Service)
- Carolina, Clinchfield & Ohio: Road Tests of Mallet and Consolidation Locomotives, 1476
- Catskill Traction Co.: Line Extended, 125
- Cement (See Concrete)
- Central of Georgia: Educational Bureau, 393, 693, 1579

GENERAL INDEX—Continued.

[Illustrated articles are indicated thus*; Editorials thus†; Letters to the Editor thus‡.]

- Central of New Jersey: Ice Car, 1239*
 Chamber of Commerce of New York: Conservatism in Railway Regulation, 863
 Chamberlin, Edson J., 1193*
 Chambersburg Engineering Co.: Steam-Hydraulic Forging Presses, 1451*
 Chemist (See Paint; also Testing of Materials)
 Chesapeake & Ohio:
 Mallet Results in Road Service, 797
 Manual Block System on Single Track, 1163
 Mikado Locomotives, 201*
 Motive Power, 352
 Chicago:
 Baltimore & Ohio Strengthens Position, 925
 Board of South Park Commissioners' Agreement with Ill. Cent., 208, 246, 767, 967, 1168
 City Club of Chicago Exhibitions, 1169
 Freight Handlers' Strike, 1060, 1128, 1169, 1350, 1578, 1616
 Harbor Development, 440, 738*
 Joint Ownership of the Belt Railway of Chicago, 548, 692
 Railway Associations in Joint Headquarters, 813
 Smoke Abatement, 392, 1016, 1347
 Terminal Investigation Committee, 392, 1061, 1347
 Transportation Problem, 1248
 Chicago & Eastern Illinois: Coal Land Purchase, 438
 Chicago & North Western:
 Accident Record Banner, 923
 Chicago Passenger Terminal Statistics, 1350
 Efficiency Committees, 287
 Lignite Fuel for Locomotives, 89*
 Milwaukee, Sparta & Northwestern Construction, 365†, 382*
 Passenger Rate Increases, 860
 Safety Committee Report, 925
 Smoke Department, 1617
 Trespassers in 1911, 1082†
 Chicago & Western Indiana: Safety Committees, 1618
 Chicago Bridge & Iron Works:
 Self-Cleaning Tanks, 608*
 Two Tanks at One Location, 664*
 Water Tower, 736*
 Chicago, Burlington & Quincy:
 Mikado Locomotive, 1006*
 Relief Department Report, 967
 Safety Department, 64
 Tie Scarfing Machine, 1568*
 Waterproofing Concrete Structures, 307*
 Chicago Car Door, 1246*
 Chicago Car Interchange Bureau, 119, 238*
 Chicago Great Western:
 Circulars to Employees, 1127, 1351, 1531†
 Economy Campaign, 164, 393
 Killing Animals, 1616
 Maize, 438
 Motor Cars, 485†, 503
 Safety Bureau, 26, 855
 Station Agents' Association, 64
 Chicago, Milwaukee & Puget Sound: Rumors of Graft, 312, 324†
 Chicago, Milwaukee & St. Paul:
 Accident at Odessa, Minn., 84*, 137†, 152, 190†, 269†, 923, 985†, 1010, 1616
 Automobile Car, 474*
 Daily Statement of Transportation Expenses, 93*
 Dividend Reduction, 185†
 Rail Mill, 1572*
 Chicago Pneumatic Tool Co.: Rockford Motor Cars, 607*
 Chicago Railway Equipment Co.:
 Creco Brake Beam Support, 1428*
 Duplex Brake Beam Strut, 1287*
 Chicago, Rock Island & Pacific:
 Distribution and Renewal Records, 1559†, 1569*
 Employees and Loan Sharks, 859
 Iowa River Bridge, 101*
 Merit Marks for Employees, 1350
 Passes and Pullman Reservations, 855
 Pensions, 392
 Premiums for Employees, 247
 Prize Systems in Track Work, 306
 Christy, H. A.: Steel Box Car Door, 1014*
 Claims (See also Freight Rate Reductions; also Freight Rate Increases; also Interstate Commerce Commission Rulings; also State Commission Rulings):
 Fair Treatment of Consignees, 186†
 Rules for Claim Agents, 26
 Clapp Fire-Resisting Paint Co.: Fire-Resisting Paint, 734
 Cleaning (See Sanitation)
 Cleveland, Cincinnati, Chicago & St. Louis:
 Annual Report, 671†, 707
 Fined for Rebating, 1067
 Coal (See Fuel)
 Coal Car Distribution (See I. C. C. Rulings; also Car Service)
 Commerce Court (See also Interstate Commerce Commission; also Interstate Commerce Commission Rulings; also Legal Decisions; also Legislation):
 Attitude of Interstate Commerce Commission, 16, 41†, 227†, 228†
 Cases, 1173
 Charges against Judge Archbald, 1063, 1126, 1168, 1248, 1616
 Commerce Court (Continued):
 Commerce, the Commission and the Courts, 1541
 February Docket, 215
 Coal Transportation Ordered, 697, 782
 I. C. C. Overruled in Nashville Case, 1360
 I. C. C. Upheld in Coke Case, 1359
 I. C. C. Upheld in Coal Case, 1359
 I. C. C. Upheld in Crane Railroad Case, 1359
 I. C. C. Upheld in Lumber Case, 1359
 Jurisdiction of I. C. C. Over Movement of Freight Within a State, 866
 Louisville & Nashville Case (See Freight Rates)
 Movement to Abolish, 26, 67, 1083†, 1126, 1350
 New Evidence, 1023
 Norfolk & Western Grain Case, 865
 Supreme Court Decisions in Commerce Court Cases, 1329†, 1359, 1547
 Switch Connection Case, 865
 Water Lines Report Decision Overruled, 818
 Commercial Acetylene Co.: New Jersey Lighting Legislation, 326†, 692
 Committee on the Relations of Railway Operation to Legislation:
 Passenger Car Lighting, 436
 Report, 1170
 Steel Postal Car Specifications, 394, 809
 Commonwealth Steel Co.:
 Cast Steel Engine Truck Frames, 1450*
 End Frames for Passenger Cars, 1430*
 Competition:
 Bridge Kink, 901†, 1101†, 1558†
 Extra Gang, 485†, 901†, 1101†, 1102†, 1103, 1104, 1105, 1106, 1565, 1571
 Foremen Problem, 289†, 485†, 901†, 902†, 905, 906, 907, 908, 909, 910, 1111, 1117, 1119, 1121, 1564, 1565, 1567, 1571, 1574, 1575
 How the Roadmaster Can Promote Efficiency, 496, 502
 Maintenance Work Improvements, 95†, 97, 98, 99
 Tool, 1558†
 Track Kink, 95†, 289†, 293*, 294
 Concrete (See also Bridges and Buildings):
 Am. Ry. Eng. Assoc. Report on Methods of Patching and Repairing Plain and Reinforced Concrete, 631
 Cement Gun, 489*
 Cold Weather Concreting, 504
 Concrete Distributing Tower, 499*
 Deck Girders, Reinforced Concrete, on the Wabash, 506*
 Waterproofing Concrete Structures on C. B. & Q., 307*
 Consolidation (See Finance)
 Construction, New:
 Am. Ry. Eng. Assoc. Report on Railway Location, 712†, 725*
 Bingham & Garfield, 744*
 Canadian Pacific, Toronto-Sudbury Branch, 1158*
 Canadian Railways in 1911, 244
 Construction Outlook, 830†
 Copper River & Northwestern, 191*
 Florida East Coast Extension, 1036*
 Grade Separation in Joliet, Ill., 789*
 Grand Trunk Pacific, 353
 Harriman Lines; Spokane-Ayer Cut-Off, 1187*
 Milwaukee, Sparta & Northwestern, 365†, 382*
 New Mileage and Low Rates, 10
 Oregon Trunk and the Des Chutes Railways in Central Oregon, 680*
 Relocation of the Panama Railroad, 295*
 Special Design for Retaining Wall, 504*
 Twin City-Twin Ports Line of the M. St. P. & S. S. M., 842*
 Contractor's Views on Railway Contracting, 1329†, 1345
 Control (See Finance; also Government Regulation of Railways)
 Conventions (See also Names of Associations):
 Chicago (See American Railway Engineering Association)
 Committee Reports, 711†
 Committee Work, 612†
 Atlantic City Conventions (See American Railway Master Mechanics' Association; also Master Car Builders' Association)
 Conveying Machinery (See Hoisting and Conveying)
 Cooling (See Refrigeration)
 Copper River & Northwestern, 191*
 Correspondence (See Organization)
 Cost (See Finance; also Maintenance of Way)
 Coupler (See Draft Gear)
 Cowles-MacDowell Engineering Co.: Hot Water Boiler Washing and Filling System, 690*
 Crane (See Hoisting and Conveying)
 Credit (See Finance)
 Creosote (See Ties and Timber; also American Wood Preservers' Association)
 Crop:
 Conditions, 514, 861, 1065, 1354
 Cotton Crop, 771, 1251
 Crossing (See Grade Crossing)
 Culvert (See Maintenance of Way; also Bridge and Buildings)
 Cumberland Valley: Accident Record, 1352
 Curve (See Track)

D

- Damages (See Claims)
 Defective Box Cars and Damaged Freight, 827†, 829†, 835*, 878†, 892*, 944†, 947†, 954*, 987†, 1002*, 1029†, 1035†, 1050*, 1081†
 Delaware & Hudson:
 Annual Report, 831*†, 874
 Locomotive Terminal at Carbondale, Pa., 1087*
 Delaware, Lackawanna & Western:
 Fined for Illegal Rebating, 697
 Prizes for Trackmen, 311
 Safety Committee, 1126
 Demurrage (See Car Service)
 Denver & Rio Grande:
 Coal Lands Deeded to Government, 967
 Improvements, 769
 Denver Joint Car Inspection and Interchange Bureau, 438
 Denver, Northwestern & Pacific, 1033†
 Derrick (See Hoisting and Conveying)
 Des Chutes Ry.: Competitive Construction with Oregon Trunk, 680*
 Des Moines Bridge & Iron Co.:
 Novel Calculator, 607
 Steel Water Tanks, 735*
 Detroit Lubricator Co.: Detroit Eight-Feed Lubricator, 1452*
 Detroit Steel Products Co.: Detroit Fenestra Windows in Building Collapse, 559*
 Discipline (See Employee)
 Dock (See Yards and Terminals)
 Door:
 Acme Sectional Diaphragm, 1425*
 Chicago Car Door, 1246*
 Christy Steel Box Car Door, 1014*
 Garland Refrigerator Door Fixture, 207*
 Utility Automatic Lock for Box Car Doors, 1397*
 Draft Gear:
 Anderson Friction Draft Gear, 1099*
 Automatic Couplers Twenty Years Ago, 1266†
 Coupler and Draft Equipment, 1383*
 Coupler Side Clearance, 1298
 Forsyth Radial Yoke Connection, 1287*
 Penn Freight Coupler, 1325*
 Drainage:
 Cast-Iron Gutters, 558
 Dynamite in Track Drainage, 601
 Heavy Drainage Work on the Pennsylvania Railroad near Petersburg, Pa., 1118*
 Yard Drainage, 289†
 Drawbridge (See Bridges and Buildings)
 Drill (See Machine Tools)
 Drinking (See Sanitation)
 Duluth, Rainy Lake & Winnipeg: Scherzer Rolling Lift Bridge, 610*
 Duluth, South Shore & Atlantic: Snow Crab, 497*
 Duluth & Iron Range: Ore Dock at Two Harbors, Minn., 8*
 Duntley Manufacturing Co.: Air Washer and Cooler for Passenger Cars, 23*
 Durbar Traffic, 898*

E

- Earnings (See also names of companies):
 January Earnings, 696
 Living Rate for the Railways, 10
 Passenger Service and Earnings, 1533†
 Revenue and Expenses in December, 515; January, 773; February, 1130; March, 1252
 Economic Practices (See Efficiency Methods)
 Edison Storage Battery Co.:
 Edison Storage Battery for Train Lighting, 1284*
 Tests for Storage Batteries, 1429*
 Education (See also Agriculture):
 Apprenticeship, 1155
 Apprentices, Car Shop, 463†, 675†, 900, 1399†, 1400†, 1401*
 Apprentices, Track, 1117
 Car Design in the Technical Schools, 841
 Central of Georgia Educational Department, 393, 693, 1579
 Chicago Great Western Station Agents' Association, 64
 Division Foreman to Train Section Foremen, 906
 Firemen Taught by Moving Pictures, 1484†
 Foremen, Providing and Educating (See Officer)
 Illinois Central Educational Bureau Assisting Employees in Legal Matters, 511, 924
 Inter-Railway Institute of Technological Investigation, 1096
 Pennsylvania R. R. First Aid Lectures, 855
 Efficiency Methods (See also Maintenance of Way; also Fuel):
 Chicago & North Western Efficiency Committees, 287
 Chicago Great Western Economy Campaign, 393
 Difficulty of Practice, 1096
 Economy and Efficiency, 270†
 Economy, Opportunities for, 204, 229†, 848
 Economy, Side Lights on, 674†
 Efficiency Engineers, Failure of, 411†

Efficiency Methods (Continued):

- Employees' Interest in Efficiency Operation, 1000
- How the Roadmaster Can Promote Efficiency, 496, 502
- Ideas Bought, Illinois Central, 924
- Ideas Bought, Pennsylvania, 163
- Illinois Central Efficiency Engineering Results, 411†, 420*
- Mimeograph for Railway Printing, 94, 163
- Ties, Economical Use of, 467†
- Track Maintenance Efficiency, 1112*
- Yardmaster's Views on, 4†
- Electric Motor (See Locomotive, Electric)
- Electric Railways:
 - Growth of 41†
 - Mileage Built and Cars Ordered During 1911, 63
 - Rural Trolleys as Steam Railway Subsidiaries, 668†
 - Street Car Run from Boston to New York, 767
 - Southern Pacific and the New York, New Haven & Hartford, 224†
- Electric Traction (See Locomotive, Electric)
- Electrification:
 - Am. Ry. Eng. Assoc. Report on Electricity, 611†, 636*
 - Butte, Anaconda & Pacific, 247, 1578
 - Chicago Terminal Investigation, 63, 392, 1016, 1061, 1347
 - Grades, 460†
 - Main Line Railways, 460†
 - Stamford, Conn., to Cedar Hill: N. Y. N. H. & H., 63, 79†
 - Steam Roads, 666†
- Elgin, Joliet & Eastern: Safety Committees, 1247
- Embankment (See Maintenance of Way)
- Employee (See also Legislation; also Education; also Officers; also Kinks, Track; also Interstate Commerce Commission Rulings; also Legal Decisions; also Accident):
 - Arbitration, Compulsory, Urged, 1617
 - Compensation and Wage Increases, 799
 - Compensation Awarded, 1059
 - Compensation Cost, 897
 - Co-operation Plan; Southern Pacific, 924
 - Courtesy an Asset, 1127
 - Economy Campaign on the Chicago Great Western, 164
 - Efficiency of Operation, 1000
 - Enginemen's Pay in England and America, 1017
 - Extra Gang Competition (See Competition)
 - Federation of Federations, 967
 - Firemen Taught by Moving Pictures, 1484†
 - Full-Crew Bill, Report on, 265†, 275
 - Hobo as a Track Laborer, 1558†, 1566
 - Ideas Bought by the Illinois Central, 924
 - Ideas Bought by the Pennsylvania, 163
 - Identifying Applicants for Employment, 834†, 947†
 - Justice to Shopmen, 1511†
 - Labor Department Plan, 486†, 494
 - Labor Prices, 1373*
 - Labor Unionism, L. F. Loree on, 612†, 642
 - Loan Sharks, 859
 - Locomotive Development and the Enginemen, 944†
 - Medals, 923
 - Merit Marks on Rock Island Lines, 1350
 - Movement for Standard Wages, 208
 - Opportunity in the Railway Business, 951
- Pass:
 - Abuse of, 39†, 44†
 - Issuance of Passes, 813
 - Liability for Damages, 163
 - Nash's Duplex Pass Form, 150*
 - Passes on Missouri Pacific-Iron Mountain System, 1127
- Pensions:
 - Atchison, Topeka & Santa Fe, 247
 - Chicago, Rock Island & Pacific, 392
 - Illinois Central, 26
 - Southern Pacific, 118, 1127
 - Western Union Telegraph Company, 809
- Premiums on Rock Island, 247
- Relief Department; C. B. & Q., 967
- Stockholding Employees, 1032†, 1181†, 1186†
- Strike and Demands:
 - American Locomotive Co., 118
 - Boston Elevated, 1350, 1579
 - Coal Miners, 439, 508, 692, 768, 809, 856, 1126, 1168
 - Eastern Enginemen, 323†, 352, 740†, 769, 809, 955, 923, 968, 986†, 1017, 1059, 1351, 1616
 - Firemen, 1060, 1126
 - Freight Handlers' Strike at Chicago, 1060, 1128, 1169, 1350, 1578, 1616
 - Harriman Lines, 311
 - National Railways of Mexico, 923
 - Pennsylvania Railroad, 1578, 1616
 - Strike Sequel, 509
 - Trainmen's Wants, 312
 - Treatment of Passengers, 1351, 1531†
 - Union Members Out of Work in New York, 508
 - Unions, Resolve of, 692
 - Wages and Earnings on the Pennsylvania, 1016
 - Wage: Railway Wages and Cost of Living, 1614
 - Wage Increase:
 - Boston, Revere Beach & Lynn, 1350
 - Chesapeake & Ohio, 118

Employee (Continued):

- Chicago & Eastern Illinois, 63
- Chicago, Indianapolis & Louisville, 855
- Denver & Rio Grande, 923
- Grand Trunk, 692, 967, 1016, 1247
- In 1911, 510
- Interborough Rapid Transit Company, 1126
- New Orleans Terminal Company, 508
- New York, New Haven & Hartford, 855
- Piecework Wages in Timber Treating Plant, 1577
- Rock Island Lines, 438
- Wages of British Railway Employees, 1246
- Engine (See Locomotive; also Locomotive, Electric):
 - Engineering and Maintenance of Way Association (See American Railway Engineering Association)
- England (See also subjects):
 - British Railway Accidents, 1211
 - Coal Miners' Strike, 440, 580, 768, 809
 - Form for Annual Reports Prescribed by Law in England, 783†, 801
 - Railway Nationalization, 1248
 - Wages of British Railway Employees, 1246
- Equipment (See Car Service; also Locomotive Performance)
- Erdman Act, Workings of, 759
- Erie:
 - Buffalo Union Station, 1059
 - Mikado Locomotives, 241*
 - Prizes for Track Work, 208, 305
 - Profile of Cincinnati Division, 243*
 - Record of Pacific Type Locomotive, 739†
 - Standard Practice Cards, 1108*
 - Subway Waiting Room, 437*
 - Track Inspection Car, 1561*
 - Two Whistles on Locomotives, 27
 - Well Car of 75 Tons Capacity, 1388*
- Exhibits (See names and subjects)
- Explosives:
 - Dynamite in Track Drainage, 601
 - Transportation of Explosives, 80†, 121, 809, 854
- Exposition (See names and subjects)
- Express (See also names of companies; also Earnings; also Interstate Commerce Commission Rulings):
 - Express Rate Bill Reported, 813
 - Marking Express Shipments, 121
 - Statistics of All Companies, 477
- F
- Fairbanks, Morse & Co.:
 - All-Steel Motor Car, 484*
 - Electric Turntable Tractor, 735*
 - Igniter for Motor Cars, 1325
 - Oil Engines, 608*
 - Oil Engines for Water Stations, 1424*
 - Section Motor Cars, 101, 660*
 - Telescopic Spout Standpipe, 560*
- Fare (See Passenger Rates)
- Farming (See Agriculture)
- Fast Trains and Runs:
 - Cleveland, Ohio, to Toledo, 63
 - Denver to Omaha, 1247
 - Express Train Speeds in Germany, 1618
 - Philadelphia to New York, 755*
- Files (See Organization)
- Finance (See also Accounting):
 - Bank Dividends, 1†
 - Bonded Indebtedness Increasing, 986†
 - Bonds, Collateral Trust, 1†, 48
 - Bonds, Convertible, 1†, 87
 - Bonds, Notes and Stocks, 1†, 19
 - Capitalization, Steam and Street Railway, 1532†
 - Control of All Railways, 82†, 185†, 186†, 190†
 - Discounting Material Bills, 1147†
 - Employees as Stockholders, 1032†, 1181†, 1186†
 - Dividend Reduction of C. M. & St. P., 185†
 - Equities in Stock Purchases, 81†
 - Graft Rumors on the C. M. & P. S., 312, 324†
 - Minority Stockholders, Protection of, 266†
 - Operation Results, 1205
 - Preliminary Investigation of New Railway Projects, 427
 - Receiverships, Three Decades of, 945†
 - Securities Held by Railways, 665†
 - Securities of Steam and Street Railways, 41†
 - Strikers Must Be Reinstated Before New Bonds May Be Issued, 767
 - Trolleys as Steam Railway Subsidiaries, 668†
 - Valuation of Carriers' Securities, 323†
 - Women Stockholders, 323†
- Finley, President, Reviews the Situation in the South, 1172
- Fire:
 - Forest Fire Prevention, 231*
 - Lime Wash for Fire Prevention, 1125
 - Protection on the Pennsylvania, 349
- Firebox (See Locomotive Firebox)
- Flag (See Signal)
- Flange (See Wheel)
- Flood (See Maintenance of Way; also Yards and Terminals)
- Floor (See Shops; also Waterproofing)
- Florida East Coast:
 - Extension to Key West, 1036*
 - Traffic to Key West, 163

Forest Preservation (See Fire)

- Forestry (See Agriculture)
- Forsyth Bros. Co.:
 - Forsyth Radial Yoke Connection, 1287*
 - Side Framing, 1427*
- Foundation (See Bridges and Buildings)
- France: Government Railway Operation in France, 1047
- Freight (See also State Commission Rulings; also Car Service):
 - Coal Transportation, 64, 863
- Freight Claims (See Claims)
- Freight Rates (See also Interstate Commerce Commission Rulings; also State Commission Rulings):
 - Chicago Switching Rules Committee, 121
 - East St. Louis, Discrimination in Favor of, 166
 - Low Rates, Effects of, 10
 - Export and Import Rates Complaint, 211
 - Industrial Railways and Unfair Discrimination, 269†, 325†, 340
 - Louisville & Nashville Case, 403, 412†, 434, 520
 - Material for Repairs of Cars Damaged on Foreign Lines, 1169
 - New York, Discrimination Against, 166
 - Panama Canal Rates, 460†
 - San Joaquin Valley Rate Case, 865
 - Texas Rate Case, 741†, 747
 - Uniform Classification and the Shippers, 224†
 - Western Freight Classification, No. 51, 29
 - Western Classification Controversy, 211, 252, 265†, 313, 397
- Freight Rate Increase (See also Interstate Commerce Commission Rulings; also State Commission Rulings)
 - Ocean Freight Rate Increases, 28
 - Panama Railroad, 166
- Freight Rate Reductions (See also Interstate Commerce Commission Rulings; also State Commission Rulings):
 - Chicago & North Western, 1582
 - Chicago, St. Paul, Minneapolis & Omaha, 1582
 - Great Northern, 1582
 - Long and Short Haul Clause, 1062, 1175, 1176, 1581, 1582, 1621
- Freight Traffic (See Traffic)
- Freight Yards (See Yards and Terminals)
- Frog (See Switch)
- Fuel (See also International Railway Fuel Association):
 - Coal Transportation, 64, 863
 - Coaling Station, All-Steel, 564*
 - Coaling Station, Sauerman, 660*
 - Coaling Station on the Lake Shore & Michigan Southern, 766*
 - Coaling Station, Steel Automatic Balance Bucket Type, 658*
 - Fuel Economy, 1511†
 - Lignite, for Locomotives, 89*
 - Oil Burning on Locomotives, 188†
 - Smoke Abatement in Chicago, 63, 392, 1016, 1061, 1347
 - Smoke Abatement Tests on Santa Fe Switching Locomotives, 343*, 419†
 - Smoke Department, Chicago & North Western, 1617
 - Smoke Problem at Pittsburgh, 438
- Furnace: Ferguson Superheater Flue Welding Furnace, 1451*
- G
- Gage:
 - Goodwin Duplex Water Glass, 348*
 - Ironclad Water Glass Protector, 1209*
 - Klinger, Richard, Reflex Water Gage, 1450*
 - Galveston, Houston & Henderson: Revaluation Asked, 1067
- Gardening (See Station)
- General Electric Co.:
 - Battery Truck Crane, 1530*
 - Electric Towing Locomotive for the Panama Canal Locks, 159*
 - Gas-Electric Cars, 1128
 - Gas-Electric Motor Car; S. L. & S. F., 1324*
 - Signal Volt-Ammeter, 1450
- Georgia & Florida:
 - Hine System, 118
- Goetz, Joseph, Manufacturing Co.: Flexible Connector for Steam Heat, 507*
- Gold Car Heating & Lighting Co.:
 - Steam Pressure Regulator, 1209*
 - Thermostat for Car Heating, 1423
- Goulds Centrifugal Pumps, 737*
- Government Ownership:
 - Acworth and Cook on a Government Holding Company, 1534
 - An Alternative, 1169
 - France, 1047
 - Panama Railroad, 828†, 857
 - Postal Service, An Example, 366†
 - Probability of, 80†, 83†
 - Railway Nationalization in England, 1248
 - Single Control of All Railways, 82†, 185†, 186†, 190†
- Government Regulation (See also Interstate Commerce Commission; also State Commissions):
 - Conservatism, 863
 - Future of Railway Regulation, 782†, 803
 - Government Directors Proposed, 311

GENERAL INDEX—Continued.

[Illustrated articles are indicated thus*; Editorials thus†; Letters to the Editor thus‡.]

- Government Regulation (Continued):**
Investigation of Governmental Regulation, 926
Joint Commission with Canada, Idea Abandoned, 67
Living Rate for the Railways, 10
Reasonable Regulation of Railway Rates, 1599
Republican Convention and Government Regulation, 1591†
Street Railways, Future of, 41†
Trend of, 40†, 333
What Is the Matter with the Railways? 877†, 883
- Grade:**
Effect of Grades on Tonnage Reduction, 44*
Electrification on Grades, 460†
- Grade Crossings:**
Grand Crossing, Ill., 990*
Intelligent Agitation Against, 81†
New Jersey, 967
New York, 967, 1531†
Special Design for Retaining Wall, 504*
Wilkesburg, 350
- Grade Revision (See Construction, New)**
- Grain (See also Crop; also Interstate Commerce Commission Rulings):**
Receipts at New York in 1911, 121.
Grain Door Allowances Abolished, 1020
- Grand Trunk:**
Admittance to Immigrant Office, 67
Invasion of New England, 393, 1184†
New Steamships, 772, 923
Strikers Must Be Reinstated Before New Bonds May Be Issued, 767
- Grand Trunk Pacific:**
Estimated Cost, 353
Little Salmon River Bridge, 1603*
Section from Prince Rupert to Skeena River Opened, 1578
Train Agents, 349
Strikers Must Be Reinstated Before New Bonds May Be Issued, 767
- Gravel (See Ballast)**
- Great Britain (See England; also names of railways):**
- Great Northern:**
Accident near Doyon, N. D., 311
Ore Loading Docks at Allouez, Wis., 136†, 145*
Value of Ore Properties, 350
- Great Northern of England New Radcliffe Viaduct, 235***
- Grinding (See Machine Tools)**
- Guard Rail (See Rail)**
- H**
- Hale & Kilburn Steel Coach Interior Finish, 1424**
- Hall Style "K" Automatic Signal, 561***
- Han-Yang Iron and Steel Works, 509**
- Harahan, J. T., 135†, 142***
- Harriman Estate: Value of, 693**
- Harriman Lines (See also separate companies):**
Loss in Equitable Fire, 63
Spokane-Ayer Cut-Off, 1187*
- Haskell & Barker Tank Valve for Refrigerator Cars, 25***
- Hawley, Edwin, 237***
- Hays, Charles M., 891***
- Headlight (See Lighting)**
- Heating:**
Gold Thermostat for Car Heating, 1423
Thermo Jet Car Heating System, 1426*
Train Pipe and Connections for Steam Heat, 1404*
- Highway Crossing (See Grade Crossings)**
- Hill, James J., 1342***
- Hitchings Cast-Iron Gutters, 558**
- Hoisting and Conveying:**
Battery Truck Crane, 1530*
Derrick Car for Handling Track Material, 98
Dock Machinery and Power Equipment, 338*
Electric Wrecking Crane for Pennsylvania Tunnels, 603*
Loading Rails with an American Ditcher, 1122*
Rules for Loading Materials, 1374*
Self-Propelling Wrecking Crane and Steam Shovel, 304*
Steam Shovel to Spot Cars, 498
- Hose:**
Air Brake Hose, 878†
Air Brake Hose Specifications, 1298†
Air Hose Failures, 1093
Air Hose Protector, 1529*
Armored Air Brake Hose, 1481
Goetz Flexible Connector for Steam Heat, 507*
Hose Clamp, 1283
Utility Steam Hose Coupler, 1482*
- Hostility (See Public, The Railways' Relations with)**
- Hours of Labor (See Employee)**
- Houston & Texas Central, Strike Sequel, 509**
- Hudson Bay Route, 943†, 960**
- I**
- Illinois:**
Prohibition on Trains, 438
- Illinois Central:**
Accident at Kinmundy, Ill., 135†, 137†, 142*, 209, 809, 985†, 1010
Accident Reduction, 1018
Car Repair Graft Cases, 1350, 1616
Central Fruit Despatch, 120
Complaints of Coal Operators, 1256
Educational Bureau to Assist Employees in Legal Matters, 511
Electrification, 208, 247, 767, 967, 1168
Grade Separation at Grand Crossing, 990*
Ideas Bought, 924
New Chicago Terminals, 208, 247, 767, 967
Office Cars, 1211
Practical Efficiency Engineering, 441†, 420*
Reward Offered for Conviction of Wreckers, 26
Steel Observation Car, 50*
Stock Sold to Employees, 1081†
Traffic Agreement with the Chicago, Lake Shore & South Bend, 1247
Treatment of Immigrants, 1618
Imperial Taiwan Railways, 94
Independent Pneumatic Tool Co.:
Electric Drill, 1509
Roller Bearing Air Drill, 1449*
- Industrial Development by Railways (See Agriculture)**
- Industrial Railways, 169, 269†, 325†, 340, 469†, 985†, 998, 1060, 1242, 1330†**
- Industrial Works: Electric Wrecking Crane for Pennsylvania Tunnels, 603***
- Injunction (See Legal Decisions)**
- Inspection Car (See Motor Car)**
- Insulation (See Refrigeration)**
- Interborough Rapid Transit: Emergency Lighting Apparatus, 767**
- Interchange (See Car Service)**
- Interlocking (See Signals, Interlocking)**
- Intermountain Demurrage Bureau, 1212**
- Intermountain Rate Case (See Freight Rate Reductions)**
- International Navigation Congress, 1212**
- International Oxygen Co.: Autogenous Welding and Cutting, 1510**
- International Railway Fuel Association:**
Anthracite Coal for Locomotive Fuel, 1198
Convention, 1194*
Fuel as a Factor in Locomotive Capacity, 1185†, 1194
Fuel Economy, 1199
Inspection of Fuel from Producer's Standpoint, 1204
Locomotive Fuel Performance Sheet, 1195
Standard Coal Analysis, 1205
- Interstate Commerce Commission (See also Interstate Commerce Commission Rulings; also Accounting; also Freight Rate Increases; also Commerce Court; also Legislation; also Legal Decisions):**
Accident Bulletin No. 41, 430; No. 42, 1059, 1090
Accident Reports, 467†
Annual Report, 2†, 16
Annual Report of Block Signal and Train Control Board, 197, 223†
Authority in Alaska, 1023
Boiler Explosion on Southern Pacific, Report on, 1128
Branch Offices Proposed, 459†
Commerce Court, Petition for Abolition of, 26, 67
Commerce, the Commission and the Courts, 1541
Discriminations, Unfair, Prevention of, 41†, 227†, 228†
Express Companies' Statistics, 477
Express Company Overcharges, 252
Jurisdiction of I. C. C. Over Movement of Freight Within a State, 866
Manufacturers' Railway, Investigation of, 169, 269†, 325†, 340
Odessa Accident Report, 923
Regulation of Operation, 674†
Sixty Trip Tickets, 1066
State Commission Interference, 741†, 747
Telephones on American Railways, 1043, 1152
Weighing Practices Hearing, 773, 784†, 816, 1064
Western Classification Hearing, 1354
- Interstate Commerce Commission Rulings. (See also Commerce Court; also Legal Decisions; also Legislation):**
Apple Rates Increased, 1622
Arizona Rate Readjustment, 169
Ashburn, Ga., Discriminated Against, 975
Baggage Privileges on Trains Upheld, 775
Baltimore, No Discrimination Against, 816, 864
Barrel Stave Rates Reduced, 1622
Boat Line a Private Facility of Salt Company, 1066
Bond Required for Average Demurrage Privilege, 401
Boston Denied Differential, 1582
Boston, Ga., Discriminated Against, 1622
Bulky Articles, Rates on, 1175
Canned Goods, Rates Equalized, 168
Capacity of Cars, Publication of, Ordered, 124
- Interstate Commerce Commission Rulings (Continued):**
Cement Rates, Discrimination, 402
Cement Rates Reasonable, 1621
Class, Certain, Rates Reduced, 1355
Class Rates for Switching Service Upheld, 1176
Closing of One Route from Chicopee to New York Allowed, 1021
Coal Car Distribution Plan Ordered, 1175
Coal Rate Advance Burden of Proof, 399
Coal Rates from Pittsburgh to Lake Erie, 696
Coal Rates Reduced, 1622
Coal Rates to Nassau, Ill., Reduced, 1621
Coal Rates Unreasonable, 1623
Colorado Coal Rates Adjustment, 864
Columbia, S. C., Discrimination Against, 974
Concentration Charges Found Unreasonable, 1175
Conference Rulings, 517, 520, 864, 1021
Contract not Enforceable, 356
Cotton Rates Raised, 1175
Cotton Seed Rates Reduced, 517, 816
Cotton Waste, Discrimination Against, 215
Crude and Gas Oil Rates Equalized, 168
Decatur, Discrimination Against, 70
Delivering Goods Where Address Is Given, 1582
Demurrage on Embargoed Cars, 356
Demurrage When Carload Shipment Is Split Up, 1132
Differentials to Atlantic Seaboard Fixed, 1583
Dock Facilities Must Be Furnished to All on the Same Terms, 1175
Dressed Meat Rates to New Orleans and Lake Charles, 399
Exception to the Fourth Section Permitted, 443
Export Rates, Discrimination in, 1215
Flaxseed Rate Increases Permitted, 1021
Galveston Wharf Co. Losses, 1215
Glazed Sash and Window Glass Rates Not Excessive, 934
Glucose Rates Reduced, 1621
Grain and Hay Rates Reduced, 399
Grain Elevation at Chicago, 775
Grain Elevation Charges, 401
Grain Rates Equalized, 1622
Grain Rates to Sioux City, 864
Granulated Cork, Definition of, 1215
Grievances Adjusted Through Lease, 1215
Hardwood Lumber Rate Reduced, 356, 401
Import Rates from Philadelphia, 1215
Incubators, K. D., 1355
Industrial Railways (See Industrial Railways)
- Interstate Service, Definition of, 124**
- K. C. Viaduct, Jurisdiction Over, 1355**
- Lemon Rates Reduced, 31**
- Light-End Distillate Rates Reduced, 1256**
- Live Stock Rates Reduced, 30**
- Long and Short Haul Clause. (See Freight Rate Reductions)**
- Louisville, Discrimination Against, 169**
- Lumber Rate from Kansas City to Des Moines Reduced, 1256**
- Lumber Through Routes and Joint Rates Reduced, 1621**
- Malt Rate Reduced, 1066**
- Material for Company Use Rate Division, 401**
- Mileage Rates Approved on Packing House Products, 1257**
- Milk Rate Advances Approved, 1215**
- Milk Rates in New England, 356**
- Minneapolis-Denver Rate Reduced, 168**
- Mixed Carload Shipments, 1256**
- Mohair Rates Reduced, 930**
- Newport News Discriminated Against, 1132**
- New Roads, La., Discriminated Against, 1621**
- Northern Pacific Allowed Preference on South Tacoma Traffic, 1021**
- Oklahoma to Texas Rates Reduced, 1355**
- Omaha, Neb., Discriminated Against, 1622**
- Paducah, Discrimination Against, 168**
- Passes, Issuance of, 813**
- Passes, 1175**
- Pennsylvania Reparation for Coal Car Discrimination, 974, 1022**
- Pipe Lines Held to be Common Carriers, 1553**
- Poles Given the Lumber Rate, 356**
- Potatoes, Minimum Weight on, Unreasonable, 816**
- Precooling Privilege Granted to Shippers, 974**
- Private Cars Not Charged Demurrage, 1256**
- Proctor & Gamble Case, 1215**
- Proportional Rates, Withdrawal of, Withheld, 1215**
- Rates Reduced to Permit of Competition, 401**
- Reduced Fare Tickets and Through Transportation, 930**
- Reparation to Uninjured Complainant, 401**
- Rice Rates Reduced, 974**
- Sacramento Gateway Remains Closed, 356**
- Salt Lake Case (See Long and Short Haul Clause)**

Interstate Commerce Commission Rulings
(Continued):

Santa Rosa, Cal., Discriminated Against, 1622
Second Hand Article Special Rates Refused, 1215
Sheep Rates Where Double-Deck Cars Cannot Be Furnished, 1021
Sioux City, Discrimination Against, 30
Special Equipment, Time for Furnishing, 401
Spur Track Operation, 775
Steel Rates from Mississippi River to Denver Reduced, 399
Sugar Rates, No Discrimination in, 816
Switching Charge Found Reasonable, 1066
Switching Charges of Industrial Railways, 520
Tap Line Cases (See Industrial Railways)
Telegraph and Cable Messages to be Kept One Year, 1256
Through Rate Division not Criterion of Local Rate, 169
Through Rates, Pending Decision, 773
Through Route Ordered, 775
Transit Privileges, Retroactive, 399
Trimming Coal a Part of Rail Transportation, 401
Walsenburg Coal Rate Order Amended, 168
Water Competition Controls, 1066
Water Lines Must Report on Intrastate Traffic, 818
Western Live Stock Rates Reduced, 1257
Whiteland, Ind., Rate Reduced, 168
Wichita, Discrimination Against, 1583
Wire Rate Reduced, 448
Wood Pulp Rates Reduced, 816
Wool Rates Reduced, 933, 1256
Iron and Steel (See also Rail; also Wheel; also Welding):
Exports, 119
Specifications for Steel, 796
Use of Sheet Metal for Railway Purposes, 734
Vanadium Steel Locomotive Frame, 1482*

J

Jacobs-Shupert U. S. Firebox Co.: Firebox Tests, 208
Jerome Metallic Packing Co.: Stickley Track Sander, 161
Jonesboro, Lake City & Eastern Safety Committee, 767
Journal (See Bearings)

K

Kansas City, Mexico & Orient:
Bondholders' Committee and Future Possibilities, 740†
Comparison with the Denver, Northwestern & Pacific, 1033†
Prospects, 461†
Kent Oscillating Cattle Guard, 921*
Kinks, Track (See also Maintenance of Way):
Anti-Rail Creeper, 484*
Guard Rail Clamps, 609*
Hand Car Broom Holders, 310*
Handling Snow and Ice with a Spreader, 293*
Motor Car Kinks, 294
Socket on Hand Car for Flags, 293
Squaring Up the Head of a Spike Maul, 293
Universal Combination Screw Spike, 922*

L

Labor (See Employee)
Labor Situation on the Railways, 189†, 268†, 367†, 370†, 464†, 743†, 785†, 882†, 1032†, 1081†, 1186†, 1332†
Lake Shore & Michigan Southern:
Annual Report, 669†, 705
Coaling Station, 766*
Fined for Rebating, 1067
Grade Separation at Grand Crossing, 990*
Special Design for Retaining Wall, 504*
Lamp (See Lighting)
Legal Decisions (See also Interstate Commerce Commission Rulings; also Interstate Commerce Commission; also State Commission Rulings; also Legislation; also Passenger Rates; also Freight Rates; also subjects; also Commerce Court):
Arkansas Live Stock Damage Law Unconstitutional, 934, 975
Baltimore & Ohio Southwestern Liable for Damage to Street Car, 1023
Central of Georgia and Western of Alabama Free to Raise Rates in Alabama, 1251
Central of Georgia Passenger Rate Case, 215
Circuit Court has Jurisdiction over Foreign Corporations, 314
Commerce Court May Recieve New Evidence, 1023
Commerce Court Overruled in Three Cases, 1359
Commerce, the Commission and the Courts, 1541
Crossing Tracks at Grade, 520
Electric Railway's Current Interferes with Telegraph Messages, 125
Express Company Taxes, 357
Federal Employers' Liability Law, 1133
Fellow Servants, 775
Fine for Falsely Describing Freight, 403
Headlight Order in Indiana Annulled, 1023

Legal Decisions (Continued):

Headlights Can Be Regulated by State Commissions, 448
Holding Freight, No Fines for, 70
Indiana: Twenty-four Foot Caboose Car Law Sustained, 1583
I. C. C. Has Authority in Alaska, 1023
I. C. C. May Require Water Lines to Report on Intrastate Traffic, 818
Judgment Against C. & O. for Abrogation of Contract, 818
Letter of Service, Fine for Refusal to Issue, 31
Liability for Damage of Through Shipments, 357
Liquor Transportation to Temperance Districts, 170
Live Stock Detention Law, Fine for Violation of, 26
Los Angeles-San Pedro Rates Reduced, 357
Lumber Rates, Pacific Coast to St. Paul, 187†
Lumber Rates Reduced, 120
Lynching, Railway an Accomplice, 520
Muckraker, the Railways and the Courts, 879†
Negro's Rights in Louisiana Street Cars, 125
Postal Telegraph Company Pays Damages for Error, 170
Posting a Tariff is not Part of Publishing, 818
Rebates, Standard Oil Company Fined for Accepting, 170
Rebating, D. L. & W. Fined, 697
Rebating, Fines, 1067, 1359
Rebating, Railways and Dock Companies Fined, 775
St. Louis Terminal an Unlawful Monopoly, 975, 1082†, 1360
Southern Pacific's Land Claims Sustained, 402
Stock of Other Companies Owned by Railways, 448
Supreme Court Decisions in Commerce Court Cases, 1329†, 1547
Untransferrable Tickets Lawful, 166
Wages Twice a Month, 1176
Legislation (See also Government Regulation; also Passenger Rate Reduction; also Freight Rate Increases; also Freight Rate Reduction; also Employee; also Car Service; also Commerce Court; also Interstate Commerce Commission; also Interstate Commerce Commission Rulings; also State Commissions; also State Commission Rulings):
Full Crew Legislation, 943†, 968, 1029†
Reforestation Encouraged, 967
Results in Massachusetts, 1579
Superfluous Legislation, 943†
Commodities Clause, Failure of, 137†
Conflicting Authority of Federal and State Laws, 810
Employers' Liability Law, 63, 125, 472, 809, 1059
Grafting Bills, 326†, 692
Indiana Headlight Law, 169
Mechanical Matters Legislation and Conference Committee, 90
Sherman Anti-Trust Law, and the Railways, 2†
What is the Matter with the Railways? 877†, 883
Lehigh Valley:
Broken Lehigh Valley Rail, 267†, 280*
Buffalo Union Station, 1059
Coal Company and the Commodities Clause, 137†
Letters from an Old Railway Official to His Son, 5†, 22, 140†, 190†
Lighting:
Anti-Gas Legislation, New Jersey, 326†, 692
Dynamo Regulator, 1327*
Edison Storage Battery for Train Lighting, 1284*
Electric Fixture Combining Indirect Lighting and Paddle Fans, 1288*
Emergency Lighting Apparatus on Int. Rapid Transit, 767
Head End Electric Train Lighting, 149
Headlight Numbers, 1241*
Headlights, Minimum Requirements for, 1518
Indirect, for Passenger Cars, 15*, 1529
Intermittent Acetylene Lights on Signals, 389
Lighting Fixtures, 1396*
Passenger Car Lighting, 436
Pintsch Mantle Lamps with Electric Ignition, 1481
Portable Electric Power Plant for Railway Work, 805
Pyle-National Locomotive Headlight, 1452*
Safety of Modern Methods, 190†
Tests for Storage Batteries, 1429*
Train Lighting, 1386
Liquor:
Intoxicating Liquor Transportation to Temperance Districts, 170
Sale on Trains, 438
Locomotive:
Ash Pan (See Locomotive Firebox)
Bearings (See Bearings)
Enginemmen and Locomotive Development, 944†
Firing (See Fuel)

Locomotive (Continued):

Flue Gas Analyses in Locomotive Testing, 1536*
Frames, Cast Steel, 1457†
Frame, Vanadium Steel, 1482*
Headlights (See Lighting)
Maintenance of Superheater Locomotives, 1511†, 1518*
Mallet, Chesapeake & Ohio, 797*
Mallet, Pennsylvania R. R., 377*
Mikado, Chesapeake & Ohio, 201*
Mikado, C. B. & Q., 1006*
Mikado, Erie, 241*
Mikado, Missouri Pacific, 55*, 248
Most Powerful Locomotive in the World, Virginian, 1321*
Oil Burning Locomotives, 482*
Pacific Type Locomotive, Louisville & Nashville, 1446*
Painting (See Paint)
Power Lost in Locomotive Exhaust, 1512†
Rods, Main and Side, 1457†, 1467*
Sanding (See Sanding)
Smoke (See Fuel)
Superheater (See Superheater)
Triplex Compound Locomotive, Proposed, 851*
Trucks (See Trucks)
Valve (See Valve)
Whistles, Two, on Erie Locomotives, 27
Locomotive Boiler (See also Master Boiler Makers' Association):
Corrosion and Treated Water, 1114
Design, Construction and Inspection, 1485†, 1487*
Explosion on Southern Pacific, 692, 806*, 1128, 1146†, 1544
Gyrus Spark Arrester, 89*
Hot Water Boiler Washing and Filling System, 690*
Injector with Automatic Overflow Valve, 1508*
Lord Water Softener, 1556*
Loss of Steam from Safety Valves, 79†
Low Water Alarm, 206*
Low Water Boiler Tests, 1502*, 1591†, 1595*
Modern Locomotive Boilers, 1224†
Power Lost in Locomotive Exhaust, 1512†
Purified Water Supply, 661
Tube Cleaner, 1453*
Locomotive, Electric:
Towing Locomotive for the Panama Canal Locks, 159*
Direct Current Freight Locomotive; Oakland, Antioch & Eastern, 1528*
Eight-Motor Articulated Electric Locomotive; N. Y. N. H. & H., 1608*
Locomotive Finished Material Co.: Dynamometer Car, A. T. & S. F., 750*
Locomotive Firebox:
Fire Control Apparatus, 206*
Firebox Tests, 208, 1159
Mechanical Stokers, 2†, 24*, 1456†, 1463*
Locomotive Freight:
Chesapeake & Ohio; Mallet, 797*
Chesapeake & Ohio; Mikado, 201*
Chicago, Burlington & Quincy; Mikado, 1006*
Erie; Mikado, 241*
Missouri Pacific; Mikado, 55*, 248
Pennsylvania R. R.; Mallet, 377*
Virginian; Most Powerful Locomotive in the World, 1321*
Locomotive, Passenger: Louisville & Nashville Pacific Type Locomotive, 1446*
Locomotive Performance (See also Fast Trains and Runs):
Mallet Results in Road Service, 797*
Record of an Atchison, Topeka & Santa Fe Locomotive, 692
Record of a Mikado Locomotive, 1472*
Record of Pacific Type Locomotive on the Erie, 739†
Road Tests of Mallet and Consolidation Locomotives, 1476
Upkeep of Locomotives, 1455†
Variations in Locomotive Tractive Effort with Speed, 685*
Locomotive Superheater Progress, 1283
Long and Short Haul Clause (See Freight Rate Reductions)
Long Island R. R.:
Accident Record, 1352
Informing Passengers, 365†, 395
New York Traffic, 67
Prompt Train Service, 767
Steel Passenger Cars, 471*
Lord, George W., Co.: Lord Water Softener, 1556*
Louisville & Nashville:
Coal Transportation Ordered, 697, 776
Freight Rate Case, 403, 412†, 434, 520
Memphis Union Station, 852*
Pacific Type Locomotive, 1446*
Lubrication (See Oil):
Cutting Compound, 1508
Detroit Eight-Feed Lubricator, 1452*
Flange Lubrication, 1512†, 1513*
Locomotive Cylinder and Valve Lubrication, 1432†
Lumber (See Ties and Timber)

M

McConway & Torley Co.: Penn Freight Coupler, 1325*

GENERAL INDEX—Continued.

[Illustrated articles are indicated thus*; Editorials thus†; Letters to Editor thus‡.]

- McCord Manufacturing Co.:**
Air Hose Protector, 1529*
Deck Sash Ratchet, 1509*
McCord Weatherstrip, 1453*
- McCord & Co.:**
Machine for Testing Journal Friction, 1430*
Pressure on Journal-Bearing Wedges, 1280†
- Machine Tools** (See also Maintenance of Way):
Boring Machine for Reboring Pin Holes, 116*
Capacity and Efficiency, 1511†
Drill, Electric, 1509
Drill, Roller Bearing Air, 1449*
Drill, Forged High Speed Twist, 765*
Grinding Wheel Records, 1530
Journal Turning Lathe, 1557*
Steam-Hydraulic Forging Presses, 1451*
- Mail:**
Committee on Railway Mail Pay, 249
Cost of Carrying Second-Class Mail, 394
Postal Car Specifications, 394, 809
Postal Service Delays, 366†
- Maintenance of Way Association** (See American Railway Engineering Association)
- Maintenance of Way** (See also Rail; also Ties and Timber; also Accounting; also Drainage; also Switch; also Hoisting and Conveying):
Approaches to Highway Crossings, 485†
Ballast (See Ballast)
Bank Widening, 289†
Benefits from Study of Cost of Work, 99
Berme Levee or Dike, 1124*
Cattle Guard, 921*
Chemical Weed Destroyer and Track Preservative, 737
Cold Weather Difficulties, 95†, 302
Dumping Scale Boxes, 310
Economy in Material, 97
Efficiency in Track Maintenance, 1112*
Extra Gangs, 1105
Extra Gangs, Caring For, 1565
Extra Gang Competition (See Competition)
Extra Gang, Economical Handling, 1106
Extra Gangs, Economical Size, 1106
Extra Gang, Efficient Operation of, 1571
Extra Gang, Large, Organizing, 1104
Extra Gang, Negro Labor, 1104
Extra Gang Organization, 1102†
Extra Gang, Organizing and Handling, 1103, 1571
Extra Gang Problems, 1106
Extra Maintenance Work, 1105
Flood Effects, 1558†
Foreman Problem Competition (See Competition)
Handling Heavy Material, 1124
Iron Form for Concrete Arches and Pipe, 1123*
Loading Rails with an American Ditcher, 1122†
Maintenance Organization, 290†, 492
Maintenance Work in 1911, 96†
Obstructions in Bridge Entrances, 1558†
Personal Contact with the Foreman, 1111
Portable Steel Buildings for Maintenance Forces, 494*
Prize Systems in Track Work, 208, 305, 311, 1568
Rail Relaying Gang, Organization of, 99
Reinforced Concrete Deck Girders on the Wabash, 506*
Relative Costs of Maintaining Anchored and Unanchored Track, 602*
Santa Fe Rule Book, 912
Saw Mill, Portable, 1125*
Section Car (See Motor Car)
Seller's Tie Plate, 661*
Shims, 500*
Snow Crab, 497*
Snow, Fighting in Kansas, 910*
Snow, Removing from Switches, 920
Standard Practice Cards on the Erie, 1108*
Track and Signal Maintenance; Union Pacific, 485†, 487
Track Apprentices, 1117
Track Kinks (See Kinks, Track)
Track Device Experiments, 1101†
Unloading Track Material, 1101†
Washout Repairing, 1124
Work Train, Cost of, 95†
- Manufacturers' Railway Case**, 169, 269†, 325†, 340, 469†
- Maryland Steel Co.:** Rail Tracing Machine, 1564*
Railway Operations, 39†
- Massachusetts Mohair Plush Co.:** Plush for Car Seats, 1395
- Masonry** (See Bridges and Buildings; also Concrete)
- Master Boiler Makers' Association:**
Annual Meeting, 1143†, 1155
Brick Arch, 1155
Location of Feed Water Admission, 1155
Spark Arresters, 1155
Superheated Steam and Boiler Maintenance, 1157
Weakest Condition of Boiler, 1155
- Master Car Builders' Association:**
Automatic Couplers Twenty Years Ago, 1266†
Ballot for Officers, 1297†
- Master Car Builders' Association** (Continued):
Baseball Game, 1419, 1435*
Car Shop Apprentices, 463†, 675†, 1399, 1400†, 1401*
Concluding Exercises, 1414
Entertainments at Convention, 877†, 927, 1485†
Exhibit of the Railway Supply Manufacturers' Association, 1283*, 1324*, 1395*, 1423*, 1449*, 1481*, 1508*, 1529*
Forty-Sixth Convention, 1400†
Freight Rate on Material for Repairs of Cars Damaged on Foreign Lines, 1169
Government Regulation of Safety Appliances, 1369†
Helping the Committees, 1367†
M. C. B. Defect Cards, 393, 439
Mechanical Inspectors, 470†
Past Presidents, 1529
President Stewart's Address, 1300*
Proceedings, 1300*, 1371*, 1401*
Registration, 1276, 1319, 1389, 1415, 1484†
Report on Capacity Marking of Cars, 1413*
Report on Car Wheels, 1298†, 1312*, 1388
Report on Coupler and Draft Equipment, 1383*
Report on Damage to Cars by Unloaders, 1367†, 1376*
Report on Overhead Inspection of Box Cars, 1368†, 1369†, 1378*
Report on Prices for Labor and Material, 1373*
Report on Revision of Constitution, 1302
Report on Revision of Rules of Interchange, 1371
Report on Revision of Standard and Recommended Practice, 1304*
Report on Rules for Loading Materials, 1374*
Report on Specifications for Freight Car Truck Sides and Bolsters, 1399†, 1412
Report on Tank Cars, 1407
Report on Tests of Brake Shoes, 1297†, 1309*
Report on Train Brake and Signal Equipment, 1308*
Report on Train Lighting, 1386
Report on Train Pipe and Connections for Steam Heat, 1404*
Special Train from Chicago, 1277
Special Train from New York, 1280
Springs for Freight Car Trucks, 1368†, 1385*, 1399†
Steel Passenger Cars, Lack of Interest in, 1399†
Steel Wheel Designs, 365†, 369†, 371
Waste of Power in Trains, 1368†
Mediation (See Employee)
Melcher, F. O., 135†, 142*
- Michigan Central:**
Annual Report, 672†, 709
Fined for Rebating, 1067
- Mid-Western Car Supply Co.:**
Anderson Friction Draft Gear, 1099*
Steel Underframe and Truck Bolster for Freight Car, 1328*
- Mileage: Railways of the World**, 1532†
- Minneapolis, St. Paul & Sault Ste. Marie: Extension from Frederick, Wis., to Boylston**, 842*
- Missouri Pacific:**
Mikado Superheater Locomotives, 55*, 248
Passes for Employees, 1127
Signal Lamp with Fresnel Lens, 162*
- Missouri, Kansas & Texas: Safety Committees**, 438
- Montauk Harbor Improvement Company**, 311
- Morden Frog & Crossing Works:**
Adjustable Switch Stand, 736*
Guard Rail, 664*
Guard Rail Clamps, 609*
Protection of Facing Point Switches, 563*
- Morris, Ray, on Railway Development from a Banker's Standpoint**, 648, 711†
- Motor Car:**
Automobile Car for the Chicago, Milwaukee & St. Paul, 474*
Electric Cars for Terminals, 63
Fairbanks-Morse All-Steel Motor Car, 484*
Gas-Electric Cars, 1128
Gasolene Electric Tool Car, 658*
Igniter for Motor Cars, 1325
Motor Car Kinks, 294
Operation in Cold Weather, 498
Rockford Motor Cars, 607*
Rockford Spike Driving Car, 657*
Section Motor Car, 660*
Section Motor Cars on the Chicago Great Western, 485†, 503
Section Motor Cars; San Pedro, Los Angeles & Salt Lake, 101
Self-Propelled Cars, 151
Steel Brush Protection for a Motor Car, 310*
- Muckraker, the Railways and the Courts**, 879†
- Mudge, Burton W., & Co.:**
Garland Refrigerator Door Fixture, 207*
Garland Ventilator for Buildings, 507*
- Nathan Manufacturing Co.:**
Injector with Automatic Overflow Valve, 1508*
Klinger, Richard, Reflex Water Gate, 1450*
- National Association of Manufacturers: Attitude Toward Unionism**, 370†
- National Baggage Committee**, 1019
- National Chamber of Commerce**, 973
- National Association of Railway Commissioners: Committee to Investigate Rails and Equipment**, 349
- National Association of Scale Experts: Semi-Annual Meeting**, 163
- National Board of Trade, Proposed**, 439
- National Civic Federation: Investigation of Governmental Regulation**, 926
- National Industrial Traffic League: Classification Committee Proposals**, 771
- National Malleable Castings Co.:** Malleable Iron Hand Brake Fittings, 1426*
- National Railway Appliances Association** (See American Railway Engineering Association)
- National Trans-Continental Railway** (See Grand Trunk Pacific)
- National Waterways Commission: Report**, 861
- New England Railroad Club: Unit System**, 480
- New Orleans & Northeastern:**
Accident near Hattiesburg, Miss., 1061
Contract with St. L. & S. F., 311
- New Orleans Great Northern: Roadbed Repara-tion Ordered**, 31
- New York Subway** (See Subway; also Interborough Rapid Transit)
- New York Central & Hudson River:**
Accident near Collinwood, 508
Accident near Hyde Park, N. Y., 508, 692
Acquiring Lake Shore & Michigan Southern Stock, 81†
Annual Report, 669†*, 708
Buffalo Union Station, 1059
Grand Central Terminal, New York, 395, 462†
New York, Ontario & Western Deal, 257, 818, 828†
Rutland Deal, 257, 986†, 1067, 1133
- New York Central Lines:**
Composite Gondola Car, 1286*
Improved Operation, 828†
Safety Committees, 1249
- New York, Chicago & St. Louis: Grade Separation at Grand Crossing**, 990*
- New York, New Haven & Hartford:**
Accident near Lett's Island, Conn., 1012*
Broken Rail Study, 1012*
Eight-Motor Articulated Electric Locomotive, 1608*
Electric Subsidiaries, 224†
Electrification from Stamford to Cedar Hill, 63, 79†
Lease of Boston & Maine, 856, 929, 1061, 1127, 1133, 1168
New York, Ontario & Western Deal, 257, 818, 828†
Rural Trolley Subsidiaries, 668†
Rutland Deal, 257, 986†, 1067, 1133
- New York, Ontario & Western: Sale Held Up**, 257, 818, 828†
- New York, Philadelphia & Norfolk: Stock Dividend Forbidden**, 1355
- New York Railroad Club:**
Brake Slack Adjusters for Freight Cars, 1143†
Electric Welding, 330*
Electrification of Steam Roads, 666†
- New York, Susquehanna & Western: Jersey City Station of Pennsylvania Abandoned**, 70
- New York, Westchester & Boston:**
Property, 1170, 1225†, 1229*
Suburban Car, 1334*
- Niles-Bement-Pond Co.:** Journal Turning Lathe, 1557*
- Norfolk & Western: Union Station at Norfolk**, 1247
- Norfolk Southern:**
Three New Lines, 3†*
- Union Station at Norfolk**, 1247
- Northern Central: Station at Baltimore, Md.**, 964*
- Northern Pacific:**
Preference on South Tacoma Traffic, 1021
Train Rules, 390
- O**
- Oakland, Antioch & Eastern: Direct-Current Freight Locomotive**, 1528*
- Ocala Northern**, 211
- Officer** (See also Education; also Organization; also Public, the Railways' Relations with; also Employee):
Car Inspector's Important Duties, 743†
Car Shop Apprentices, 463†, 675†, 900
Co-operation Between Employees and Officers, 189†, 268†, 367†, 370†, 464†, 743†, 785†, 882†, 1032†, 1081†, 1186†, 1332†
Despatchers' Office, 83†
Foreman, Division, to Train Section Foremen, 906
Foreman, Foreign, 1117
Foreman, Personal Contact with, 1111
- N**
- Nashville, Chattanooga & St. Louis: Memphis Union Station**, 852*

Officer (Continued):

- Foreman Problem, 1121, 1564, 1575
 Foreman Problem Competition (See Competition)
 Foreman Problem, Solving, by Attracting American Boys, 907
 Foreman Problem and Reorganization, 908
 Foremen, Developing, 909
 Foremen, Future Supply of, 905, 1571, 1574
 Foremen and Roadmasters Trained on Roadmaster's Division, 909
 Foremen and the Shopmen, 1511†
 Foremen from Waterboys, 1567
 Foremen, Student, 905†
 Foremen, Training, 1565
 Foremen, Training Emergency, 908
 Foremen, Training the Future, 1119
 Foremen's Wages, Necessity for Increases, 906, 907, 910
 Frisco Station Agents' Plan Extended, 1351
 Graduated Wage Scale for Sectionmen, 908
 Handling a Station, 1164
 Handling Industrial Matters on the St. L. & S. F., 970
 Railway Officers and Supply Companies, 1030†
 Roadmaster, How He Can Promote Efficiency, 496, 502
 Station Agent on the St. L. & S. F., 266†, 278
 Ogle Construction Co.: Steel Automatic Balance Bucket Type Coaling Station, 658*
 Oil (See Fuel; also Lubrication)
 Oklahoma
 Station Building, 440
 Opportunity in the Railway Business, 951
 Oregon Trunk Ry.:
 Bridge Construction, 756*
 Competitive Construction with Des Chutes Railway, 680*
 Oregon-Washington Railroad & Navigation Co.:
 Seattle Terminals, 103*
 Organization (See also Officers; also Maintenance of Way):
 Am. Ry. Eng. Assoc. Report on Rules and Organization, 575*
 Hine System on Georgia & Florida, 118
 Scientific Management (See Efficiency Methods)
 Unit System, 480
 Yardmaster's Views on Efficiency, 41
 Otto Gas Engine Works: Gasolene Electric Tool Car, 658*
 Ownership (See Finance; also Government Ownership)

P

- P. & M. Co.:
 Bond Wire Protector, 564*
 Crane Guard Rail Retainer, 609*
 Pacific Coast Case (See Freight Rate Reduction)
 Pacific Car Demurrage Bureau: Demurrage Rates, 860
 Pacific Railway of Nicaragua, 1578
 Paint:
 Fire-Resisting Paint, 734
 Panama Railroad:
 Gold Hill Relocation, 295*
 Operation, 828†, 857
 Pass (See Employee)
 Passenger Rates (See also Interstate Commerce Commission Rulings; also State Commission Rulings; also Passenger Rate Increases; also Passenger Rate Reduction):
 Colonist Fares, 250
 Effect of Two-Cent Fares, 413†
 Minimum Excursion Rates, 67
 Passes and Pullman Reservations on the C. R. I. & P., 855
 Sixty Trip Tickets, 1066
 Tourist Fares from Chicago to New York, 121
 Passenger Rate Increase (See also Interstate Commerce Commission Rulings; also State Commission Rulings):
 Chicago & North Western, 860, 929
 Louisville & Nashville, 929
 Minnesota, 1064
 Pennsylvania Railroad, 1251
 Passenger Rate Reduction (See also Interstate Commerce Commission Rulings; also State Commission Rulings):
 Great Northern, 929
 Denver & Rio Grande, 1019
 Grand Trunk, 1212
 Missouri Pacific, 1019
 New York to Coney Island, 250
 Pere Marquette, 1212
 Two-Cent Fares, 413†
 Western Pacific, 1019
 Passenger Service:
 Extra Fare Trains, 1533†
 Effect of Automobiles, 648, 711†
 Pavements, 1144†, 1594†
 Pay (See Employee)
 Pease, C. F., Co.:
 Direct Printing Process, 563
 Machine for Sensitizing Blue Print Paper, 659*
 Peirce, E. B., 135†, 142*
 Pennsylvania Railroad:
 Accident at Crestline, Ohio, 438
 Accident at Warrior Ridge, Pa., 347*
 Accident near Larwill, Ind., 349
 Annual Report, 414†, 456

Pennsylvania Railroad (Continued):

- Damages for Unjust Distribution of Coal Cars, 974, 1022
 Decreasing the Death Roll, 118
 Dining Car, 1616
 Dining Car Service, 1214
 Drainage Work near Petersburg, Pa., 1118*
 Electric Wrecking Crane for Pennsylvania Tunnels, 603*
 Fires in 1911, 349
 First Aid to the Injured Lectures, 855
 Freight Yard Capacity, 63
 Grade Separation at Grand Crossing, 990*
 Ideas Paid for, 163
 Improvements at North Philadelphia, 1617
 Length of Service of Employees, 1210
 Mallet Locomotive, 377*
 Medal for Safety, 119, 164
 New Signals on the Pennsylvania, 423
 Ore Unloading Dock at Cleveland, Ohio, 324†, 335*
 Police Officer Convicted of Murder, 1616
 Prevention of Industrial Accidents, 432*
 Prize Systems in Track Work, 305
 Reparation for Coal Car Discrimination, 974
 Safety Committees, 768
 School of Telegraphy, 855
 Steel Passenger Equipment, 311
 Trees, 1351
 Wage Earnings, 1016
 Pennsylvania Steel Co.:
 Frogs and Joints, 661
 Switch Stands, 558
 Pension (See Employee)
 Peoria Transportation Club: Joint Ownership of City Terminals, 925
 Pere Marquette: Annual Report, 327†, 362
 Permanent Way (See Maintenance of Way)
 Philadelphia & Reading: Fast Schedule Between Philadelphia and New York, 755*
 Piece Work (See Employee; also Ties and Timber)
 Pile (See Bridges and Buildings)
 Pilliod Co.: Baker Valve Gear on Old Power, 1481
 Pittsburgh, Fort Wayne & Chicago: Grade Separation at Grand Crossing, 990*
 Pneumatic Tools (See Machine Tools)
 Present Giving, 44†, 228†
 Pressed Steel Car Co.:
 Composite Gondola Car, New York Central Lines, 1286*
 Seventy-Ton Ore Cars, 1398*
 Price (See Finance)
 Printing:
 Machine for Sensitizing Blue Print Paper, 659*
 Mimeograph for Railway Printing, 94, 163
 Pease Direct Printing Process, 563
 Stationery and Printing, 204
 Prosperity (See Finance)
 Public, The Railways Relations with (See also Finance):
 Illinois Commission on, 810
 Informing Passengers on the Long Island R. R., 365†, 395
 Joint Committee of Shippers and Railway Men in Chicago, 121
 Muckraker, The Railways and the Courts, 879†
 Newspapers and the Railways, 830†, 1145†, 1147†, 1223†, 1227†, 1228†, 1330†, 1432†, 1592†
 Payment for Superfluous Haul, 1591†
 Spokane Agreement, 813
 Train Agents on the Grand Trunk Pacific, 349
 When the Railways Reform Themselves, 1084†
 Whistles, Two, on Erie Locomotives, 27
 Pullman Co.:
 First Aid Packets for Pullman Cars, 809
 Pullman Sleepers in Collision, 84*
 Steel Observation Car for Illinois Central, 50*
 Pump (See Water Service)
 Pyle-National Electric Headlight Co.: Locomotive Headlight, 1452*

Q

- Q. & C. Co.:
 Anti-Rail Creeper, 484*
 Tension Guard Rail Clamp, 922*

R

- Rail (See also Maintenance of Way)
 Am. Ry. Eng. Assoc. Report on Rail, 611†, 616
 Broken Lehigh Valley Rail, 267†, 280*
 Broken Rail Study on the New Haven, 1012*
 Broken Rails—A Retrospect, 654
 Crane Guard Rail Retainer, 609*
 Development and Use of Rails, 948
 Flat Wheels and Broken Rails, 1031†, 1613*
 Guard Rail, 664*
 Hard and Soft Rails, 209, 226†
 Influence of Rolling Temperature on the Properties of Bessemer Rails, 655
 Inspection at Rail Mills, 1030†, 1057, 1126, 1227†, 1247
 Insulated Rail Joint, 116*
 Manganese Steel One-Piece Guard Rail, 496*
 Mr. Isaacs on Rail Failures and Eccentric Loading, 1086†

Rail (Continued):

- Rail Breakage and Wheel Loads, 785†
 Rail Conference in New York, 769
 Rail Failures Due to Eccentric Loading, 888*, 901†
 Rail Failures and Car Truck Designs, 329†
 Rail Hearing at Indianapolis, 70, 351, 368†, 374, 567†, 924, 948
 Rail Mill, C. M. & S. P., 1572*
 Rails and Accidents, 42†
 Rail Tracing Machine, 1564*
 Tension Guard Rail Clamp, 922*
 Wheel Loads and Transverse Rail Fissures, 468†
 Railway Business Association:
 Danger of Shortage of Railway Facilities, 378
 Duty of the Political Parties to the Shippers, 1270
 Railway Commissions (See State Commissions)
 Railway Materials Co.: Ferguson Superheater Flue Welding Furnace, 1481*
 Railway Signal Association:
 Chicago Meeting, 529†, 530†
 Comprehensive Scheme of Signaling, 441, 459†
 June Meeting, 1349, 1552
 Manual of Recommended Practice, 529†
 Proceedings, 532*
 Report on Automatic Block, 538*
 Report on Contracts, 532*
 Report on Electric Railway and Alternating Current Signaling, 542*
 Report on Power Interlocking, 537
 Report on Progress of Work on the Manual, 536
 Report on Standard Designs, 545*
 Report on Storage Battery, 546
 Report on Wires and Cables, 543*
 Railway Storekeepers' Association:
 Accounting, 1160
 Annual Convention, 1160
 Handling and Accounting for Material at Contract Shops, 1162
 Line Inspection, 1161
 Oil and Waste, 1162
 Railway Salvage, 1160
 Standardization of Grain Doors, 1160
 Stationery, 1160
 Store Department Efficiency, 1161
 Railway Supply Manufacturers' Association (See also Master Car Builders' Association; also American Railway Master Mechanics' Association):
 Annual Meeting, 1447
 List of Exhibitors, 1289
 Officers and Committees, 1272*
 Entertainment Committee, 1503*
 Executive Committee, 1473*
 Railway Tax Men's Association, 858, 878†
 Railway Utility Co.:
 Exhaust Ventilator, 1429*
 Utility Automatic Lock for Box Car Doors, 1397*
 Utility Steam Hose Coupler, 1482*
 Rate Law (See Interstate Commerce Commission)
 Rebates (See Legal Decisions)
 Refrigeration:
 Garland Refrigerator Door Fixture, 207*
 Tank Valve for Refrigerator Cars, 25*
 Reinforced Concrete (See Concrete)
 Reports, Annual (See names of companies)
 Richelieu & Ontario Navigation Company, 1620
 Richmond, Fredericksburg & Potomac: Gravel Washing Plant, 604*
 River (See Waterways)
 Roadbed (See Maintenance of Way)
 Road and Track Supply Association (See Railway Appliances Association)
 Road Building (See Agriculture)
 Roadmaster (See Officer)
 Robbers (See Train Robberies)
 Roberts & Schaefer Co.: Sauerman Coaling Station, 660*
 Rules (See Employee)
 Rule of Reason and the Railways, 2†
 Rust (See Paint)
 Rutland R. R.: Sale to N. Y., N. H. & H., 257, 986†, 1067, 1133
 Ryerson, Joseph T., & Son:
 Forged High Speed Twist Drill, 765*
 Tube Cleaner, 1453*

S

- St. John's Orphanage, 923
 St. Louis & San Francisco:
 Budget for Improvements, 1126
 Contract with the New Orleans & North Eastern, 311
 Economical Water Supply, 503*
 Extending the Authority of the Station Agent, 266†, 278
 Gas-Electric Cars, 1128, 1324*
 Handling Industrial Matters, 970
 Safety Committee Results, 208
 Station Agents' Plan Extended, 1351
 St. Louis, Iron Mountain & Southern: Memphis Union Station, 852*
 St. Louis Railway Club: Contractor's Views on Railway Contracting, 1329†, 1345
 St. Louis Southwestern: Memphis Union Station, 852*
 Safeguards (See Safety Appliances)
 Safety Appliances:
 Government Regulation, 1369†

GENERAL INDEX—Continued.

[Illustrated articles are indicated thus*; Editorials thus†; Letters to the Editor thus‡.]

- Safety Appliances (Continued):
Interchange and the Safety Appliance Act, 1297†
Old Equipment and Safety Appliances, 1594†
Safety Car Heating & Lighting Co.:
Electric Fixture Combining Indirect Lighting and Paddle Fans, 1288*
Indirect Lighting with the Pintsch Mantle, 1529
Lighting Fixtures, 1396*
Pintsch Mantle Lamps with Electric Ignition, 1481
Type F Dynamo Regulator, 1327*
Thermo Jet Car Heating System, 1426*
Safety Committees (See Accident)
Salary (See Employee)
Sanding: Stickley Track Sander, 161*
Sanitation:
Drinking Cups, 63
Drinking Cups, Towels and Combs in Missouri, 163
Hot Water Boiler Washing and Filling System, 690*
Self-Cleaning Tanks, 608*
Tube Cleaner, 1453*
San Pedro, Los Angeles & Salt Lake: Section Motor Cars, 101
Sargent Co.: Ironclad Water Glass Protector, 1209*
Scale: Track Scale, B. & O., 272*
Scherzer Rolling Lift Bridges Co.: Rolling Lift Bridges, 559, 610*
School (See Education)
Scientific Management (See Efficiency Methods)
Screw Spikes (See Maintenance of Way)
Scully Steel & Iron Co.: Everlasting Blow-Off Valve, 691*
Section Car (See Motor Car)
Section House (See Bridges and Buildings)
Sellers Manufacturing Co.: Tie Plate, 661*
Semaphore (See Signal)
Shed (See Station)
Shippers (See Car Service; also Public, Railways, Relations with)
Shops (See also Efficiency Methods):
Floors for Shops and Freight Houses, 662*
Oil Engines, 608*
Short Line Buying: Norfolk Southern, 3†
Signal, Block (See also Railway Signal Association):
Annual Report of Block Signal and Train Control Board, 197, 223†
Automatic Signals on the Toronto, Hamilton & Buffalo, 1005*
Block Signal Mileage, January 1, 1043
Block Signaling Ordered in Indiana, 1076
False Statement of Conditions, 80†
Manual Block, 530†
Manual Block System on Single Track, 1163
Rules on Northern Pacific, 390
Southern Pacific, 855
Signal, Interlocking (See also Railway Signal Association):
Rules on Northern Pacific, 390
Signaling (See also Railway Signal Association; also Master Car Builders' Association):
Am. Ry. Eng. Assoc. on Signals and Interlocking, 565†, 577*
Bond Wire Protector, 564*
Hall Style "K" Signal, 561*
Classification Signals on Trains, 140†, 674†
Disk Signals, 350
Flags Abolished, 26
Frost on Signal Apparatus, 351
Grand Central Terminal, 351
Intermittent Acetylene Lights on Signals, 389
New Signals on the Pennsylvania, 423
Signal Lamp with Fresnel Lens; Missouri Pacific, 162*
Signal Maintenance: Union Pacific, 485†, 487
Signal Volt-Ammeter, 1450
Simmons, John, Co.: Sectional Concrete Pile Casing, 558
Slide (See Drainage)
Smoke Prevention (See Fuel)
Snow, T. W., Construction Co.: All-Steel Coal-ling Station, 564*
Southern Pacific (See also Harriman Lines):
Annual Report, 138†, 179
Block Signal Mileage, 855
Boiler Explosion at San Antonio, 692, 806*, 1128, 1146†, 1544
Co-operation Campaign, 924
Electric Ventures, 224†
Frog and Switch Repair Outfit, 1123
Land Claims Sustained, 402
Medals for Employees, 925, 1568
Oil Burning Locomotives, 482*
Oil Lands Suit, 1210
Pensions, 118, 1127
Publicity to Accidents, 1168
Reward Given for Saving Train, 248
Southern Pacific Land Company, 247
Southern Railway:
Coal Transportation Ordered, 697, 776
Memphis Union Station, 852*
Speed (See Fast Trains and Runs)
Spike (See Maintenance of Way)
Spokane Case (See Freight Rate Reductions)
Sprague Electric Works: Armored Air Brake Hose, 1481
Standard Car Truck Co.: Barber 50-Ton Steel Flat Car, 1326*
Standard Code (See Train Rules)
Standard Steel Car Co.: Ice Car; Central of New Jersey, 1239*
State Commissions (See also State Commission Rulings):
Indiana: Block Signaling Ordered, 1076
Maryland: New York, Philadelphia & Norfolk Forbidden to Issue Stock Dividend, 1355
Answering Tracers, 1532†
Illinois: Relations Between Carriers and Public, 810
Indiana: Annual Report, 355
Indiana: Headlight Law, 169
Indiana: Rail Hearing, 70, 351, 368†, 374, 567†, 948
Interference with I. C. C., 741†, 747
Kentucky: Annual Report, 153
Massachusetts: Annual Report, 39†, 86
Massachusetts: Report on Accident in Hoosac Tunnel, 1223†, 1234
Minnesota: Report on Odessa Collision: C. M. & St. P., 137†, 152
Nevada, Petition for Abolition of Commerce Court, 26
New Jersey: Annual Report, 57
New Jersey: Report on Full-Crew Bill, 265†, 275
New York: Annual Report, 70, 92
New York: Division of Transportation, 1355, 1623
New York: Insignificant Cases, 1183†
New York: Lack of Funds for Grade Crossing Elimination, 967
New York: Scope of Activities, 135†
Oklahoma: Annual Report, 520
Oregon: Annual Report, 118
South Carolina: Standard Freight Tariff, 125
Texas: Conference with Railway Officers, 247
Texas: Misleading Statistics, 186†
Texas: Rates Overruled by Justices of the Peace, 29
Texas: Revaluation of Galveston, Houston & Henderson Asked, 1067
Washington: Rates on Small Shipments of Lumber Reduced, 1067
State Commission Rulings:
Arkansas: Drinking Cups Ordered, 520
Connecticut: Street Railway Fares, 739†
Illinois: Car Rental and Switching Charges, 169
Illinois: Coal Car Distribution, 402
Indiana: Block Signal Mileage Cost, 1133
Indiana: Bridge Warnings, 1176
Louisiana: Discontinuing Passenger Trains, 520
Louisiana: Express Rates Reduced, 70
Louisiana: Railway Fined for not Operating Trains on Schedule Time, 125
Louisiana: Reparation of Road Ordered, 31
Maine: Bridge Plans, 402
Maryland: Flat Switching Charge at Baltimore, 1257
Massachusetts: Season Ticket Rates, 402
Michigan: Speed Limits, 356
Mississippi: Adoption of Southern Classification No. 38 Ordered, 70
Mississippi: Floods and Improvements, 1168
Mississippi: Mississippi State Classification Reinstated, 357
Mississippi: Valuation of Railways, 1216
New Jersey: Delaware & Raritan Canal Company Tolls, 1022
New Jersey: Drinking Facilities Ordered, 70
New York: Emergency Lighting Apparatus Ordered, 767
New York: Exemptions from Long and Short Haul Clause, 357
New York: Ice Rates Reduced, 1216
New York, Ontario & Western Deal Forbidden, 257, 818, 828†
New York: Refund on Commutation Tickets, 1216
New York: Restoration of Train Ordered, 402
New York: Rutland Sale Held Up, 257
Oregon: Freight and Passenger Rate Reductions, 215
Pennsylvania: Notifying Arrival of Packages, 775
San Joaquin Valley Rate Case, 865
Texas: Cost of Heavier Rails and Accounting, 208
Washington Freight Rate Reductions, 70
State Ownership (See Government Ownership).
Station (See also Yards and Terminals):
Architectural Beauty Required, 223†
Buffalo Union Station, 1059
Handling a Station, 1164
Memphis Union Station, 852*
Norfolk & Western, Norfolk Southern and the Virginian Union Station at Norfolk, Va., 1247
Northern Central Station at Baltimore, Md., 964*
Oregon Trunk Small Stations, 680*
Oregon-Washington Railroad & Navigation Co. Station at Seattle, 103*
Pennsylvania Railroad Improvements at North Philadelphia, 1617
Station (Continued):
Rolling Stock, Stations and Dwellings, 1615*
Station Building in Oklahoma, 440
Toledo, Peoria & Western, Small Station, 1121*
Union Station at Joliet, Ill., 789*
Statistics (See Accounting)
Steel Concrete (See Concrete)
Stillwell, L. B.: Passenger Car; N. Y. W. & B., 1334*
Stock (See Finance)
Stoker (See Locomotive Firebox)
Stokers, Mechanical (See Locomotive Firebox)
Storrs Mica Co.: Hose Clamp, 1283
Street, Clement F.: Mechanical Stoker Improvements, 2†, 24*
Street Railways (See Electric Railways)
Strike (See Employee)
Subway:
Accident in Berlin Subway, 768
Boston to Cambridge, 769
Chicago, 392
New York, 394, 970, 1017, 1127, 1168, 1225†, 1229*, 1253
Summers Steel Car Co.: Steel Box Car, Bessemer & Lake Erie, 677*
Superheater:
Highly Superheated Steam for Locomotives, 156*
Increased Power Obtained with Superheat, 1483†, 1499
Maintenance of Superheater Locomotives, 1511†, 1518*
Progress, 1283
Superheated Steam and the Large Locomotive, 1447
Superheated Steam on Mallet Locomotives, 1503
Superheaters and Low Operating Cost, 1417
Superheaters and Switch Engines, 1471
Superheaters Applied to Old Engines, 1387
Supply Companies and Railway Officers, 1030†
Supply Department (See also Railway Storekeepers' Association):
Agents' Requisitions for Stationery, 286, 833
Conception of Wrong, 22, 190†
Control of Supplies, 763
Importance of, 5†
Means of Economy, 229†
Prices of Materials, 1373*
Sectional Steel Storage Houses, 657*
Storekeeping, 1539
Switch:
Anderson Safety Switch Lock, 921*
Frog and Switch Repair Outfit, 1123
Frogs and Joints, 661
Protection of Facing Point Switches, 563*
Switch Stands, 558, 736*
T
Tariff:
Colonist Tariff, 250
Controversy Over Revised Western Classification, 211, 252, 265†, 313, 397, 1256, 1354
National Industrial Traffic League's Classification Proposals, 771
Uniform Classification, 224†, 366†, 370†
Taxation (See also Legal Decisions):
Bases of, 186†
Station Taxes, 223†
Tehuantepec National Ry.: Freight Statistics, 859
Telegraph (See also Association of Railway Telegraph Superintendents; also Education):
Duplex and Quadruplex Telegraphy, 1018
Government Ownership, 79†, 136†
Monument to Charles Minot, 1060
Record Communications, 1350
School on Pennsylvania, 855
Wireless, Around the World, 767
Wireless to Aeroplane, 923
Telegraph Superintendents (See Association of Railway Telegraph Superintendents)
Telephone (See also Association of Railway Telegraph Superintendents):
Operators' Operations, 208
Rules on Northern Pacific, 390
Telephones on American Railways, 1043, 1152
Wireless from Monte Marie to Magdalena, 1168
Terminal (See Yards and Terminals)
Terminal Railroad Association of St. Louis: Declared an Unlawful Monopoly, 975, 1082†, 1360
Texas:
Justices of the Peace May Regulate Freight Trains, 29
Statistics of Texas Roads, 855
Texas Welfare Commission Hears from Railways, 1062, 1151
Theft (See Train Robberies)
Ticket (See also Passenger Rates):
Anti-Scalping Campaign at Kansas City, 1020
Interchangeable Mileage Books, 1581
Ticket Scalping, 166
Tie Fastener (See Maintenance of Way)
Tie Plate (See Maintenance of Way)

Ties and Timber (See also American Wood Preservers' Association)
 Am. Ry. Eng. Report on Conservation of Natural Resources, 712†, 714*
 Am. Ry. Eng. Assoc. Report on Grading of Lumber, 726*
 Am. Ry. Eng. Assoc. Report on Ties, 566†, 586*
 Am. Ry. Eng. Assoc. Report on Wood Preservation, 729*
 Creosote Specifications, 904†*
 Penetration of Inorganic Salts in Treated Wood, 505
 Pennsylvania Railroad's Trees, 1351
 Piecework Wages in a Timber Treating Plant, 1577
 Preservation of Car Lumber, 413†
 Ties Bought in 1910, 651
 Tie Distribution and Renewal Records; C. R. I. & P., 1559†, 1569*
 Ties, Economical Use of, 467†
 Ties, Piling, 300*
 Tie Production, Uniform Specifications for, 96†
 Tie Scarfing Machine, 1568*
 Tie Steaming, Preliminary, 292†
 Tie Treating Plant, Atlantic Coast Line, 1555
 Tie Treatment, Improved Methods of, 59*
 Timber Preservation (See Ties and Timber)
 Tire (See Wheel)
 Titanic Disaster, 891*
 Toledo & Ohio Central (See Hocking Valley)
 Toledo, Peoria & Western: Small Station at Secor, Ill., 1121*
 Tool Competition (See Competition)
 Tool (See Machine Tools)
 Toronto, Hamilton & Buffalo: Automatic Block Signals, 1005*
 Track (See also Maintenance of Way; also Construction, New):
 Am. Ry. Eng. Assoc. Report on Track, 592, 613
 Malleable Iron Track Fastenings, 306
 Track Kink Competition (See Competition)
 Track Kinks (See Kinks, Track)
 Turnouts, 291†
 Track Elevation (See Grade Separation)
 Tractive Power (See Locomotive Performance)
 Trade Unions (See Employee)
 Traffic:
 Cold Weather Difficulties, 118
 Durbar Traffic, 898*
 Future Growth and Accompanying Problems, 378
 Immigration Committee, 121
 Increases, 1†
 Movements of Live Stock in February, 813
 Railways and the Panama Canal, 696
 Statistics for 1910, 886
 Steamboat Traffic Declined Before the Railway, Why, 51, 470†
 Trans-Atlantic Traffic, 513
 Traffic Club of Philadelphia: Railway Regulation, 333
 Train (See also Fast Trains and Runs):
 Train Resistance and Cold Weather, 44*
 Train Despatchers' Association: Convention, 1592†, 1606
 Train Despatching:
 Good Service in Despatchers' Office, 83†
 Suggested Modification of Rule No. 210, 329†
 Telephone: Chicago Great Western, 26
 Train Lighting (See Lighting)
 Train Load: Tonnage Rating and Cold Weather, 44*
 Trainmen (See Employee)
 Train Resistance (See Train)
 Train Robberies, 63, 248, 349, 438, 692, 967, 1126
 Train Rules:
 Form 19 for Train Orders, 418†, 675†, 788†, 1235
 Northern Pacific, 390
 Trans-African Railways, 160
 Train Shed (See Station)
 Travel Show, 1248
 Trestle (See Bridge)
 Truck:
 Car Truck Design and Rail Failures, 329†
 Commonwealth Cast Steel Engine Truck Frames, 1450*
 Sampson Bolster, 1449*
 Seventy-Ton Pedestal Jaw Truck, 1396*
 Specifications for Freight Car Truck Sides and Bolsters, 1399†, 1412
 Springs for Freight Car Trucks, 1368†, 1385*, 1399†
 Trust (See also Finance; also Public, the Railways, Relations with):
 Price Agreements, 784†
 Proposed Governmental Supervision of Corporations, 927
 Railways and the Sherman Anti-Trust Law, 2†

Truth About Railway Accidents, 230
 Tube (See Locomotive Boiler; also Tunnel)
 Tunnel (See also Subway):
 Bingham & Garfield Tunnels, 744*
 Milwaukee, Sparta & Northwestern Tunnel at Tunnel City, Wis., 365†, 382*
 Otira Tunnel in New Zealand, 144
 Turbine: Spiro Turbine, 348*
 Turnout (See Track)
 Turntable: Fairbanks-Morse Electric Turntable Tractor, 735*

U

Underframe (See Car)
 Union (See Employee)
 Union Pacific (See also Harriman Lines):
 Educational Bureau, 1350
 General Office Building at Omaha, Neb., 18*
 Safety First, 1017
 Superfluous Right of Way, 1059
 Track and Signal Maintenance, 485†, 487
 United States Metal Products Co.: Walker & Bennett Simplified Car Seats, 1327
 United States Steel Corporation:
 Bond Sale, 769
 Directors' Interests, 968
 Earnings, 209, 1016
 Ore Rates, 209, 508
 Report of Committee on Labor Conditions, 924
 Safety Campaign, 1210
 Stock Offer to Employees, 63
 Unfilled Tonnage Report, 63, 350, 510, 925, 1128
 Universal Portland Cement Co.: Concreting in Cold Weather, 504

V

Valuation of Railways: Bill for Physical Valuation of Railways, 811
 Valve:
 Baker Valve Gear on Old Power, 1481
 Everlasting Blow-Off Valve, 691*
 Injector with Automatic Overflow Valve, 1508*
 Loss of Steam from Safety Valves, 79†
 Safety Valves, 1455†, 1468*
 Steam Pressure Regulator, 1209*
 Tank Valve for Refrigerator Cars, 25*
 Vanadium (See Iron and Steel)
 Varnish (See Paint)
 Ventilation: Air Washer and Cooler for Passenger Cars, 23*
 Electric Fixture Combining Indirect Lighting and Paddle Fans, 1288*
 Garland Ventilator for Buildings, 507*
 Utility Exhaust Ventilator, 1429*
 Viaduct (See Bridges and Buildings)
 Virginian Ry.:
 Most Powerful Locomotive in the World, 1321*
 Union Station at Norfolk, 1247

W

Wabash R. R.:
 Accident near West Lebanon, Ind., 508
 Buffalo Union Station, 1059
 Concrete Deck Girder, 506*
 Improvement Program, 248
 Two Reports on Possibilities, 1169
 Wages (See Employee)
 Wall, Retaining, 504*
 Waterproofing:
 Am. Ry. Eng. Assoc. Report on Masonry, 628*
 Waterproofing Design for Bridge Floors, 560
 Waterproofing Concrete Structures, 307*
 Waterproofing Engineering Structures, 902†, 913*
 Waterproofing Subway Waiting Room, 437*
 Water Service:
 Am. Ry. Eng. Assoc. Report on Water Service, 611†, 623*
 Boston & Maine, 736*
 Centrifugal Pumps, 737*
 Economical Water Supply; St. L. & S. F., 503*
 Oil Engines for Water Stations, 1424*
 Self-Cleaning Tanks, 608*
 Steel Water Tanks, 735*
 Telescopic Spout Standpipe, 560*
 Two Tanks at One Location, 664*
 Water Tower, 736*
 Waterways:
 Harbor Development in Chicago, 738*
 Ocean Freight Rate Increases, 28
 Operation Cost of Panama Canal, 855
 Panama Canal Problems, 250
 Panama Canal Rates, 460†, 1185†
 Panama Canal, William McNab on, 547, 567†
 Railways and the Panama Canal, 696

Waterways (Continued):
 Relations Between Railways and Waterways, 1212
 Report of Waterways Commission, 861
 Steamboat Traffic Declined Before Railway, Why, 51, 470†
 Suez Canal Receipts in 1911, 166
 Traffic on New York State Canals, 120
 Weighing Association (See Western Railway Weighing Association and Inspection Bureau)
 Welding:
 Autogenous Welding and Cutting, 1510
 Electric Welding, 330*
 Ferguson Superheater Flue Welding Furnace, 1451*
 Western Passenger Association: Minimum Excursion Rates, 67
 Western Railway Club: Steel Wheel Designs, 365†, 369†, 371*
 Western Railway Weighing Association & Inspection Bureau: Weighing Practices, 773, 784†, 816, 1064, 1214
 Western Society of Engineers: Waterproofing Engineering Structures, 902†, 913*
 Western Union Telegraph Co.:
 Contract with the Marconi Wireless Telegraph Company, 967
 Pension System, 809
 Record Communications, 1350
 Westinghouse Air Brake Co.: P C Equipment, 1095
 Westinghouse Electric & Manufacturing Co.:
 Direct-Current Freight Locomotive; Oakland, Antioch & Eastern, 1528*
 Eight-Motor Articulated Electric Locomotive; N. Y. N. H. & H., 1608*
 West Jersey & Seashore: Consignees Sued, 250
 What Is the Matter with the Railways? 877†, 883
 Wheel:
 Cambria Steel Axles, 1454*
 Car Wheels, 1298†, 1312*, 1388
 Chilled Iron Car Wheel, 1265†, 1275†, 1416, 1471
 Contour of Tires, 1483†, 1497*
 Impact of Flat Wheels Upon Rails, 1613*
 Low Cost of Steel Wheels, 412†, 466†
 Steel Tires, 1483†, 1501*
 Steel Wheel Designs, 365†, 369†, 371*
 Wheeling & Lake Erie: Safety Committees, 856
 White Pass & Yukon Route: Rate Case, 771, 839
 White Star Line: Titanic Disaster, 891*
 Window:
 Asco Weatherstrip, 1454*
 Deck Sash Ratchet, 1509*
 Detroit Fenestra Windows in Building Collapse, 559*
 McCord Weatherstrip, 1453*
 Wood (See Ties and Timber)
 Wood, Edwin S., & Co.: Mirror for Inspecting Bearings, 1013*
 Wood Preservation (See Ties and Timber)
 Wood Preservers' Association (See American Wood Preservers' Association)
 Worthington, B. A., 1607*

Y

Yards and Terminals (See also Signaling):
 Canadian Pacific Yard at Fort William, Ont., Reconstruction of, 153*
 Capacity of Pennsylvania Freight Yards, 63
 Chicago Switching Rules Committee, 121
 Damage to Yards by Mississippi Floods, 922, 1111
 Delaware & Hudson's Locomotive Terminal at Carbondale, Pa., 1087*
 Drainage, 289†
 Duluth & Iron Range Ore Dock, Two Harbors, Minn., 8*
 Electrification, 63, 1061, 1347
 Great Northern Ore Loading Dock at Alouez, Wis., 136†, 145*
 Illinois Central at Chicago, 208, 247, 767, 967
 Joint Ownership of City Terminals, 925, 1082†
 Interior Harbors as Economical Terminals, 738*
 New York Central at New York, 395, 462†
 Norfolk & Western, Norfolk Southern and the Virginian Union Station at Norfolk, Va., 1247
 Oregon-Washington R. R. & Nav. Co., Seattle Terminals, 103*
 Pennsylvania Ore Unloading Dock at Cleveland, Ohio, 324†, 335*
 Statistics of Chicago Passenger Terminal of the Chicago & North Western, 1350
 Winter Work on Terminals, 309
 Y. M. C. A. Railroad Branch, 1248

NEW BOOKS

Accident Prevention and Relief, 988
 American Transportation Question, 465
 American Year Book, The, 832

Catalogue of Books on Railway Economics, 1593
 Coal Trade, The, 1226
 Comparative Analysis of Railroad Reports, 881
 Concrete Costs, 1560

Deflections and Statistically Indeterminate Stresses, 369
 Dredges and Dredging, 291
 Early Motive Power of the Baltimore & Ohio, 946
 Earning Power of Railroads, 1912, The, 1146
 Economics of Contracting, 1226

Efficiency as a Basis for Operation and Wages, 673
 Electric Traction and Transmission Engineering, 328
 Electric Traction for Railway Trains, 1226
 Engineering as a Vocation, 787
 Forney's Catechism of the Locomotive, 673

NEW BOOKS—Continued

Full Recognition of Japan, The, 1034
 Industrial Democracy or Monopoly, 988
 Judson on Interstate Commerce, 946
 Laboratory Manual for Testing Materials of Construction, 1185
 Letters from an Old Railway Official, Series II: "To His Son, a General Manager," 1593
 Maximum Production in Machine Shop and Foundry, 466
 Mechanical World Pocket Diary and Year Book for 1912, The, 4
 Modern Locomotive, The, 1332
 Moody's Analysis of Railroad Investments, 881
 Pennsylvania Railroad Company's New York Terminal; History of Engineering, Construction and Equipment, 1533

Prevention of Railroad Accidents, 189
 Proceedings of the Forty-Fifth Annual Convention of the Master Car Builders' Association, 787
 Proceedings of the Forty-fourth Annual Convention of the American Railway Master Mechanics' Association, 1034
 Proceedings of the Fourteenth Annual Meeting of the American Society for Testing Materials, 832
 Proceedings of the Nineteenth Annual Convention of the International Blacksmiths' Association, 466
 Proceedings of the Nineteenth Annual Convention of the Traveling Engineers' Association, 946
 Proceedings of the Thirteenth Annual Convention American Railway Engineering Association, 1034

Railroad Operating Costs, 742
 Railway Statistics of the United States for the Year Ending June 30, 1911, 1034
 Railway Transportation, 881
 Roofs & Bridges, 269

Signal Dictionary, The, 416
 Standard Forms of Field Notes for Civil Engineers, 1085
 Structural Design: Vol. 1: Elements of Structural Design, 1332
 Subways and Tunnels of New York, 1560
 Suspension Bridges and Cantilevers, 228

Technology and Industrial Efficiency, 4

Valuation of Public Utility Properties, 1332

Walschaert Locomotive Valve Gear, 988

FOREIGN RAILWAY NOTES.

[See also General Index, under subjects and names.]

Africa, 35, 130, 159, 160, 320, 546, 691, 697, 732, 781, 782, 826, 950, 1026, 1077, 1086, 1092, 1138, 1141, 1142, 1333, 1538, 1543, 1598, 1614
 Arabia, 1363
 Argentina, 318, 320, 361, 410, 451, 506, 528, 796, 823, 983, 1179, 1218, 1546, 1552, 1625
 Asia Minor, 1246, 1337, 1349
 Australia, 207, 220, 320, 410, 953, 983, 984, 1077, 1138, 1589
 Austria, 389, 823, 984, 1557
 Belgium, 237
 Bolivia, 25, 44, 144, 166, 178, 332, 451, 470, 528, 866, 953, 1193, 1587
 Brazil, 410, 690, 700, 750, 802, 882, 1100, 1112, 1124, 1138, 1152, 1167
 Bulgaria, 847
 Burma, 1100
 Chile, 318, 342, 451, 527, 834, 866, 881, 882, 891, 937, 1179, 1220, 1552, 1587, 1598, 1602
 China, 14, 92, 131, 246, 276, 433, 847, 1025, 1028, 1147, 1167, 1602, 1612, 1628
 Colombia, 854, 871
 Congo, 437, 1047
 Cuba, 178, 353, 871, 983
 Dominican Republic, 437

Ecuador, 77
 Egypt, 1159
 England, 1049, 1360, 1555
 Formosa, 1163, 1192
 France, 279, 396
 Germany, 200, 231, 288, 360, 389, 424, 431, 770, 802, 823, 826, 872, 1023, 1095
 Guatemala, 848, 1349, 1615
 Honduras, 155
 Hungary, 174, 279, 802, 1222, 1577
 India, 1363
 Italy, 218, 222, 318, 1026
 Japan, 1333, 1349
 Malay States, 966, 1587
 Manchuria, 134
 Morocco, 1049
 New South Wales, 190, 205, 210, 220, 246, 262, 306, 360, 493, 498, 521, 528, 922, 941, 947, 953
 New Zealand, 19, 37, 62, 74
 Nigeria, 1057, 1122

Paraguay, 77
 Persia, 1233
 Peru, 62, 847, 1047, 1100, 1602
 Philippine Islands, 1058, 1095
 Prussia, 759, 1245
 Roumania, 1363
 Russia, 38, 131, 174, 178, 205, 277, 405, 410, 452, 484, 494, 523, 702, 766, 854, 1015, 1028, 1086, 1222, 1333, 1337, 1540
 Salvador, 49, 329, 1606
 Scandinavia, 1186, 1216
 Scotland, 979, 1035, 1552
 Siam, 966
 Siberia, 1228
 Sweden, 1025, 1097
 Switzerland, 141, 370, 405, 825, 959, 1092
 Tasmania, 419, 995, 1015
 Tripoli, 292
 Turkey, 426, 429, 744, 1360, 1363, 1555
 Uruguay, 26, 35, 131, 207, 347, 882, 1026, 1028, 1075
 Venezuela, 62, 477, 847
 Victoria, 222, 360, 506

OBITUARY

Amory, W. A., 1363
 Andrews, James Stewart, 1219*

Bail, Bernard H., 868
 Barnes, Joshua B., 450
 Beyreiss, William F., 73
 Bishop, William D., Jr., 173
 Blodgett, George W., 130
 Bond, Frank Stuart, 405
 Boswell, R. E., 1136
 Brown, Horace, 1136
 Brown, Joseph A., 173
 Brownlee, James, 450
 Buck, W. F., 217*
 Burke, Thomas C., 1363
 Burns, John J., 778
 Byer, H. O., 1024

Cage, H. H., 822
 Clark, S. C., 822
 Clements, W. M., 822
 Coleman, J. P., 937
 Cooke, William Jay, 779
 Cox, Charles F., 173
 Crane, Richard T., 75
 Crawford, A. S., 405
 Culbertson, John Dickey, 699

Doul, E., 1136
 Dunbar, James R., 318
 Duncan, J. A., 130
 Duncan, W. Butler, 1625

Farren, Bernard N., 173

Fields, J. E. W., 868
 Firth, Franklin J., 698
 Ford, Elias A., 173

Gallagher, Thomas M., 261
 Geagan, George Fail, 778
 Geddes, James K., 1363
 Gilmore, Charles N., 937
 Goodrich, Alonzo C., 35
 Green, Thomas, 778
 Greene, Thomas Whyler, 937
 Guggenheim, Benjamin, 981

Harahan, J. T., 142*
 Hawkins, E. C., 868
 Hawley, Edwin, 217, 237*
 Hays, Charles M., 891*
 Healy, W. J., 522
 Heward, A. R. G., 1178
 Hicks, E. N., 173
 Higgins, Edward P., 937
 High, W. K., 1625
 Hinchey, Franklin, 1178
 Holtz, David, 1260
 Hooser, E. B., 173
 Hopkins, Amos Lawrence, 868
 Howard, James E., 1625
 Hunt, David B., 1587
 Hunter, B. F., 1136

Janney, Major E. H., 1504, 1087
 Jones, Francis S., 73

Kelby, W. B., 822
 Kingman, Lewis, 260
 Korn, L. L., 35

Lander, Albert H., 318
 Lantz, Jesse, 779
 Lee, J. M., 1218
 Lofland, Henry F., 132
 Lowell, W. W., 130

McAdoo, John H., 979
 McCoy, D. B., 173
 McKenna, R. F., 778*
 Mabce, James P., Hon., 1075
 Mack, J. W., 938
 Maine, N. M., 1136
 Melcher, F. O., 142*
 Merchant, Amos H., 1260
 Mesick, Frank Bradley, 698
 Miller, W. R., 405
 Mitchell, Barrett B., 1136*
 Mitchell, J. Howard, 261
 Morris, C. D., 868
 Morrison, Philip, 1260

Osborne, James, 1024
 Parker, Thomas W., 1024
 Parsons, Hinsdill, 1026*
 Patterson, Robert, 698
 Peirce, E. B., 142*

Rawle, James, 1076
 Richards, Edward J., 937

Ritchie, James A., 1136
 Roquette, C. M., 822

Satterlee, Charles E., 1587
 Serpell, Goldsborough M., 130
 Shea, Dan, 1218
 Snyder, Webster, 822
 Stanyan, Fred Willis, 1260
 Stephenson, James, 1363
 Sternberger, Morris L., 1260
 Stewart, Guy L., 130
 Stillman, Francis H., 359*
 Stohr, Peter Charles, 979*
 Sweet, Charles Singleton, 1364
 Sweigard, Isaac A., 219

Thayer, John Borland, 979*
 Topping, Frederick, 1180
 Trout, John F., 1218

Valentine, Henry C., 132

Waggener, T. L., 698
 Wallis, John Mather, 870
 Ward, Morris E., 75
 Warren, Chas. F., 1260
 Ways, Robert B., 318
 Welch, F. M., 868
 Wells, Clarence, 358
 Wicks, John H., 1587
 Wrenn, Beverly Welford, 260

Young, Charles L., 75
 Young, William Wilkes, 175

PERSONAL.

[Portraits are indicated thus.*]

Adams, Herbert H., 976*
 Averill, W. H., 349
 Allen, Charles A., 1361*
 Ayers, A. R., 698*
 Baker, E. H., 219*
 Ballantine, N. D., 1258*
 Barr, Frank, 1258*
 Batchelder, Frank C., 935*
 Barther, C. S., 1130
 Bates, Edwin P., 1074*
 Baxter, Robert W., 1134*

Beaghen, Thomas, Jr., 821
 Becker, W. S., 1361
 Begien, R. N., 1072*
 Blair, William L., 1624
 Blanchard, E. C., 1073*
 Borland, W. P., 355
 Bowen, Edmund I., 1216
 Boyden, Joseph A., 172*
 Britton, Frank H., 976
 Brown, Edward L., 316
 Bucklew, James, 127
 Burns, T. J., 1586*

Busteed, F. F., 1075
 Butler, S. S., 71
 Butze, Adolph, 73
 Carroll, J. T., 358*
 Chamberlin, Edson J., 1193*
 Charlton, George J., 211
 Christie, Cornelius, 1135*
 Clark, Harry G., 1360
 Clift, Albert Earl, 1259
 Cochran, C. W., 937
 Collins, Thomas, 1624

Conn, George Chester, 776*
 Cooper, W. E., 250
 Cooper, Winfield S., 316*
 Cornell, Xerxes H., 819*
 Corse, G. H., Jr., 172
 Cromar, P. G., 977
 Crowley, P. E., 867*
 Dambach, Charles Otto, 128
 Dean, John W., 1217*
 Decker, H. H., 868*
 Derr, W. L., 1257

Dillard, Frank Clifford, 976*
Dixon, George Dallas, 1072*
Driscoll, H. D., 1130
Drury, M. J., 1217*
Dynes, O. W., 171*

Earling, Herman B., 317*
Eddy, W. J., 698
English, William J., 1361
Erskine, Walter Hunter, 450
Estabrook, H. M., 1588*
Eysmans, Julian L., 1217

FitzSimmons, Edward S., 358*
Flynn, Walter H., 1625
Frame, Robert E., 938
Fripp, W. J., 977
Fulton, Samuel T., 406*

Galloway, C. W., 977*
Gest, Alexander Purves, 127
Goodeve, A. S., 1067
Gray, Carl R., 1058*
Gossett, Charles E., 405
Greiner, J. E., 129
Groat, Horace C., 777
Guess, John H., 130*

Hackstaff, A. G., 349
Hamilton, Thomas B., 33*
Hamill, John B., 1361*
Hardin, Abraham Tracy, 866
Harriman, J. W., 349
Hawley, Fred M., 1624
Hayward, Henry S., 130*
Heaman, J. A., 1259
Henry, J. M., 129
Higgins, J. W., 128*

Hill, James J., 1342*
Hine, Major Charles, 127*
Hodge, George, 448
Hogueland, E. H., 1257
Holden, John C., 1075
Hudgins, Colonel Henry C., 216*

James, John Moore, 71*
Jenks, Charles B., 261*
Jones, Charles W., 258*

Katzenbach, L. Emery, 33
Kelley, William V., 319*
Kelly, J. W., Jr., 1134
Kingston, Charles E., 1178
Kinnear, W. S., 531
Kittredge, Arthur M., 981
Kramer, LeRoy, 1261*
Krick, Charles S., 71*
Kuhns, John C., 173*

Lamont, Robert P., 319*
Lanigan, J. D., 250
Leach, N. M., 258*
Lee, Frank, 1178
Lincoln, J. C., 929
Luscombe, John T., 449*

McDonald, Donald, 777*
McGinty, G. B., 443
McIntosh, Stuart H., 357
MacEnulty, J. F., 1219*
Marshall, Thomas, 1620
Martin, Aileen, 248
Melcher, F. O., 967
Minot, Charles, 1060
Mitchell, F. B., 1024
Mirtz, Phillip P., 778

Nokely, John W., 1360
Nutt, Henry C., 936*
Osgard, Nels, 937
Ogden, G. D., 1074*
Owen, William Frazer, 257

Parker, Alexander MacDonald, 71*
Parker, Clarence F., 171*
Pendell, F. D., 935*
Pennypacker, Samuel W., 1132
Perine, David Maulden, 260*
Phelps, Merritt L., 977
Plaisted, Frank H., 129
Porterfield, John F., 1135*
Post, George A., Jr., 359
Prouty, Charles A., 86
Purcell, John, 1135*
Putnam, Louis J., 978*

Ramsey, C. W. P., 821
Randolph, V. C., 978*
Rettinghouse, H., 936
Ridgway, Amos Caryl, 316*
Riley, C. C., 1073*
Rine, E. M., 128
Robinson, F. L., 859
Ross, Andrew, 317

Scandrett, Henry Alexander, 1177*
Schaff, Charles E., 819
Schlafge, William, 172*
Sheahan, J. F., 216*
Shelby, C. K., 172
Sheng, 394
Shonts, Theodore Perry, 1623
Slattery, James T., 978*
Smith, Abram E., 821

Smith, A. H., 866*
St. John, Richard C., 1024*
Stephens, J. R., 1362
Stevens, A. J., 1588*
Stevens, John F., 451*
Stewart, George K., 698*
Stewart, J. B., 404
Strickland, Samuel George, 819
Stubbs, John C., 14*
Symington, Major W. Stuart, 1318

Tansley, William, 1135
Tegethoff, C. C., 349
Thayer, Walter, 1075*
Thompson, A. W., 935*
Thomson, S. G., 1586*
Tinsman, W. S., 257*
Towne, Walter J., 820*
Vanneman, Charles R., 1355
Vaughn, C. L., 820
Vilas, G. B., 867
Voorhees, H. B., 1073*

Wallis, J. T., 129
Walsh, J. F., 1446, 1587*
Wierman, Victor, 128*
Wilcox, Joseph Taney, 126
Williams, Arthur, 1016
Williams, Charles Haines, 319*
Williams, George V. S., 817
Wiseman, C. H., 859
Wolfenden, William E., 937
Worthington, B. A., 1607*
Worthington, W. A., 126
Wright, R. C., 1074*
Wyles, T. R., 451*

Young, Joseph H., 1177*

ELECTIONS AND APPOINTMENTS

Abbott, E. L., 405
Abram, N. J., 1258
Abrams, C. W., 698
Acker, Alexander H., 449
Adams, Herbert H., 976, 1177
Adams, J., 937
Adamson, LeRoy, 1362
Abern, J. D., 1134
Alfred, F. H., 522, 698
Allen, A. A., 776
Allen, Charles A., 1177, 1361
Allen, C. S., 1586
Allen, F. E., 35
Allen, J. M., 34
Allen, N. C., 33
Allen, P. C., 522
Alley, George L., 34
Altenderfer, M. L., 259
Amback, E. T., 1259
Amos, J. L., 405
Anderson, H. J., 868
Anderson, J. E., 1362
Anderson, J. J., 820
Anderson, R. E., 1360
Anderson, T. J., 129
Andreas, Reuben M., 128
Andrews, C. E., 820
Angell, G. R., 522
Antony, Mark, 522
Apperson, A. B., 1361
Applegate, O. P., 820
Archer, F. G., 33
Arens, W. D., 34
Arney, C. E., 522
Arundel, J. T., 258
Atterbury, W. W., 1072
Averitt, J. T., 259
Aycok, W. J., 1585, 1586

Backus, C. C., 259
Backus, E. E., 1625
Bacon, W. M., 697
Baer, J. H., 1072
Baer, P. A., 778, 1624
Baker, H. H., 1585
Baker, H. M., 1178
Baldwin, Henry, 259
Baldwin, James E., 33
Baldwin, William A., 1177
Ballantine, N. D., 1258
Banks, Isaac, 820
Banta, L. E., 72
Bantly, A. G., 522
Barger, Milton S., 403
Barkley, J. O., 405
Barnes, B. S., 72
Barnes, E. H., 1259
Barnes, Osgood F., 1585
Barnes, T. S., 217
Barnes, William C., 522
Barnett, N. C., 522
Barr, Frank, 1258
Barres, O. M., 73
Barrett, J. H., 316
Barrett, J. M., 216
Barrett, R. L., 171, 522
Barrie, J. W., 317
Bartlett, W., 867
Batchelder, Frank C., 935
Bates, E. P., 1075
Bates, W. W., 127
Bauman, E. G., 73
Baumgardner, F. M., 259

Baumgardner, R. M., 34
Baxter, Robert W., 1072, 1073, 1134
Baylor, Robert L., 449
Beacom, T. H., 1134
Beaghen, Thomas, Jr., 821
Beard, T. G., 129
Beck, W. D., 258
Becker, W. S., 1216, 1361
Begien, R. N., 1023, 1072
Behenna, S. N., 217
Behring, Fred H., 1586
Beland, B. A., 1024
Bell, Frank, 217
Bell, John, 1360
Bell, J. A., 937
Bell, R. H., 1362
Bell, W. L., 73
Bement, F. G., 72
Bender, F. O., 522
Bennett, F. W., 777
Bennett, W. H., 358
Bent, Charles L., 1216
Bentley, F. H., 821
Berend, H., 35
Berg, H. L., 976, 1023
Bergen, J. J., 34, 72
Bergman, F. W., 778
Bernet, J. J., 819
Berroth, O. D., 403
Berry, D. T., 522
Beyreiss, W. F., 128
Bickel, John, 777
Bienenmann, W. J., 357
Biggerstaff, W. M., 358
Bingham, T. L., 72
Birchett, A. S., 217, 259
Bird, W. L., 316
Birdsall, F. L., 977
Bishop, R. A., 72
Bissell, H. E., 71
Blackburn, T. V., 1217
Blackman, C. S., 778, 820
Blackmore, H. F., 978
Blair, Elbert, 171
Blair, E. H., 1624
Blair, E. S., 405
Blair, Frank W., 866
Blair, W. L., 1361, 1624
Blake, W. C., 35
Blanchard, E. C., 977, 1073
Blanton, James B., 1362
Blitchington, W. E., 1135
Bloxham, Charles M., 821
Blunt, F. R., 1259
Boatner, V. V., 1073
Boatwright, Raymond, 1362
Bockstahler, Walter, 936
Boles, R. C., 776
Bolger, J. A., 259
Bolster, Leo, 1362
Bond, W. M., 449
Bone, Matthew H., 449
Boomer, G. C., 820
Bordeg, H. L., 126
Borgwald, Fred, 404
Boss, C. E., 129, 172
Boss, L. F., 1073
Bostwick, Charles P., 449
Bostwick, H. F., 404
Bostwick, L. C., 936
Boswell, R. E., 1258
Bottorff, W. M., 1362

Bourque, C. S., 1074
Bowe, John T., 171, 820
Bowen, Edmund I., 1177, 1216
Bowman, M. S., 978, 1074
Bowman, M. V., 358
Box, M. A., 1586
Boyd, H. T., 34
Boyd, Oliver T., 72
Boyden, C. A., 777
Boyden, J. A., 73, 172
Boyle, J. H., 867
Boylston, J. D., 1362
Bracken, E. T., 35
Bradley, Charles R., 978
Bradley, John, 777
Bradshaw, George, 1178
Brady, H. K., 33
Branch, J. E., 72
Brasted, A. R., 404
Bray, H. V., 216
Bray, J. W., 358
Breckheimer, H. N., 936
Breen, James M., 1024
Brevort, C. L., 1072
Bridge, C. M., 1259
Bridge, F. A., 403
Bridgman, W. A., 936
Bridwell, J. T., 1362
Britton, Frank H., 976
Broadbent, J. H., 73
Brodie, C. G., 449
Brogan, F. A., 522
Bronner, E. D., 1134, 1135, 1217
Brooke, G. D., 258
Brooke, J. D., 1073
Brooks, F. T., 1024
Brown, A. R., 1135
Brown, A. V., 1361
Brown, C. B., 698, 821
Brown, C. H., 867
Brown, Edward L., 216, 316
Brown, F. A., 34
Brown, F. B., 1258
Brown, H. C., 1023
Brown, H. G., 259
Brown, J. A., 259, 404, 820
Brown, J. H., 868
Brown, L. S., 1259
Brown, O. A., 867, 1074
Brown, T. H., 34
Brown, T. J., 1259
Brown, W. A., 217
Brown, W. C., 1360
Brownell, J. B., 1258
Brownlee, J., 522
Bruce, George S., 449
Bruffey, H. E., 127
Brunner, F. J., 1258
Bryant, C. M., 127
Bryant, E. H., 34
Bryant, W. H., 1623
Bryson, Joseph M., 1258, 1585
Buchanan, E. W., 819
Bucher, D. F., 819, 1361
Buckelew, James, 127
Buckingham, J. E., 1136
Bugg, B. L., 317
Bunch, S. R., 1624
Burch, H. F., 1361
Burch, H. L., 449
Burgis, E. W., 258
Burke, James H., 1023, 1134

Burke, Jere T., 71
Burkhead, S. E., 1258
Burnet, A. L., 1362
Burns, T. J., 1217, 1586
Burr, A. V., 404
Burr, R. M., 821
Burroughs, F. D., 34
Burrows, O. G., 217
Burt, A. M., 977
Busby, C. O., 259
Busch, A. G., 1586
Bush, Benjamin, F., 71
Busteed, F. F., 819, 821, 1075
Butler, S. S., 71
Butner, C. B., 821
Butze, A., 35, 73
Bywater, E. C., 1362
Cage, H. H., 1024
Cahoon, J. L., 449
Cain, E. E., 1361
Calkins, R. M., 34
Callaghan, J., 978
Callahan, J. W., 1072, 1134
Calloway, Willis, 1074, 1135
Camera, N. A., 450
Cameron, Allan, 404
Cameron, W. W., 1258
Campbell, A. C., 819
Canatsy, J. W., 1624
Cannon, T. E., 522
Candler, George V., 1259
Carey, J. J., 1259
Carlton, C. R., 72
Carmichael, R. H., 1259
Carothers, J. B., 1073
Carpenter, L. E., 73
Carr, R. F., 171
Carrick, W. D., 34
Carroll, J. J., 217
Carroll, J. T., 259, 358
Carroll, W. J., 449
Carson, S. R., 72
Carstens, C. W., 867
Carswell, W., 1177, 1258
Carter, Dorset, 776
Carter, G. W., 821
Casey, B., 357, 403
Cassil, H. A., 698
Caviezel, J. A., 316
Chadbourne & Shores, 316
Chadwick, W. S., 978
Chalenor, L. E., 72
Chamberlain, G. C., 1362
Chamberlin, E. J., 976, 1216, 1193
Chamberlin, F. D., 404
Chandler, O. H., 821
Chapman, George B., 259
Chapman, J. F., 448
Charles, S. H., 171
Chase, E. S., 1585
Chase, W. F., 34
Cheatham, R. I., 72
Chesbrough, George R., 34
Cheslay, A. E. H., 257
Chesney, C. R., 449
Chisholm, E. D. C., 778
Chittenden, W. A., 33
Choate, W. G., 867
Christian, F. H., 776, 819
Christian, J. R., 129
Christie, C., 1073, 1135

ELECTIONS AND APPOINTMENTS—Continued

- Chubb, James A., 821
 Church, A. F., 1072
 Church, J. E., 1361
 Church, J. P., 1134
 Claggett, F. D., 1624
 Clar, L. H., 1177
 Claridge, R. R., 449
 Clark, A. W. G., 1259
 Clark, Byron, 33
 Clark, C. C., 172
 Clark, G. W., 33
 Clark, H. F., 217, 259
 Clark, H. G., 217, 1258, 1360, 1361
 Clark, M., 978
 Clark, S. C., 936
 Clarke, O. A., 449
 Clarke, T. E., 33
 Clarke, W., 522, 697
 Class, A. B., 867
 Cleary, T. J., 449
 Clement, J. F., 697
 Clifford, J. V., 357
 Clift, Albert E., 1073, 1259
 Cochran, C. W., 821, 937
 Cochran, J. H., 71
 Coddington, H. W., 1178
 Coffey, E. C., 34
 Coke, A. O., 867, 978
 Colclough, R., 1259
 Cole, Harold R., 1023
 Cole, J. H., 936
 Coleman, D. C., 258, 357, 819
 Coleman, L. G., 1624
 Collins, Joseph, 1178
 Collins, T., 1586, 1624
 Collyer, R. N., 34
 Coln, W. R., 405, 1625
 Comins, Herbert, 34
 Cone, F., 33
 Conlan, J. H., 405
 Conn, George C., 522, 776
 Connelly, N. D., 1134
 Connelly, P. C., 405
 Connelly, J. J., 1624
 Connor, J. T., 357, 697
 Connor, T. A., 697
 Cook, A. R., 449
 Cook, F. E., 404
 Cook, J. F., 1023
 Cook, J. W., 821
 Cooke, Ralph W., 978
 Cool, C. W., 1624
 Cooper, E. A., 777
 Cooper, W. S., 258, 316
 Copeland, G. V., 1023
 Copeland, Peter, 777
 Coppage, W. H., 819
 Corbett, John, 404
 Corbett, W., 820
 Corbett, W. H., 1217
 Corfield, William D., 34, 72
 Cornell, Xerxes H., 819
 Corse, G. H., Jr., 172
 Costello, E. P., 34
 Costigan, William C., 1073
 Cotter, William, 866
 Course, Frederic J., 449
 Cowan, J. G., 977
 Cowden, David Z., 71
 Cowgill, Eric C., 1623
 Cowhig, W. M., 71
 Cowie, H. J., 1259
 Cox, C. F., 403
 Cox, R. M., 1134
 Coyle, H. F., 1624
 Craig, J. J., 450
 Cramer, J. L., 866
 Crandall, W. J., 449
 Crary, George W., 126
 Crawford, F. P., 1362
 Crawford, Norman F., 317
 Creagh, Robert B., 449
 Crider, J. L., 1625
 Crofton, R. A., 357, 697
 Cromar, P. G., 867, 977
 Cronin, Robert T., 216
 Cronk, E. S., 71
 Crooks, C. H., 126
 Crosland, J. E., 259
 Cross, C. W., 73
 Crowley, Clement E., 1136
 Crowley, J. P., 776
 Crowley, P. E., 819, 867
 Croxton, W. W., 317
 Crozier, Wallace M., 34
 Cullom, D. L., 129
 Cumiskey, James A., 128
 Cunningham, E. J., 867
 Cunningham, W. J., 1072
 Curran, D. D., 357
 Curren, W. G., 777
 Curry, F. M., 819
 Cutts, A. B., 34
- Danley, W. D., 522
 Darlow, A. M., 822
 David, J. O., 129, 1074
 Davies, H. W., 318
 Davis, C. M., 449
 Davis, E. C., 34
 Davis, E. M., 1074
 Davis, Frank H., 257
 Davis, R. E., 1135, 1178
 Davison, E. L., 128
 Dean, John William, 1217
 DeButts, Richard H., 449
 Decker, Henry H., 822, 868
 Dedman, E. J., 697
 De Grief, F. J., 1259
 Delaney, S. J., 449
 Delano, L., 71
 Dempsey, C. E., 217
 Dempsey, T. A., 776, 819
 Dengler, H. E., 73
 Denham, W. B., 522
 Dennedy, E. O., 217
 Denney, C. E., 1178
 Dennis, J. S., 257
 Dent, S. M., 821
 Derr, William L., 1259
 Derry, Ernest J., 697
 DeSaussure, F. G., 821
 Desjardins, E. L., 1259
 Devereaux, T. M., 317
 DeVictor, William K., 1585
 Dewberry, J. M., 257
 Dewberry, W. B., 1178
 Dewey, W. L., 172, 317
 Dick, H. B., 1362
 Dickinson, B. F., 73
 Dickinson, H. E., 820
 Dickinson, J. A., 1259
 Dickson, G. F., 171
 Dillard, F. C., 976, 1134
 Dillon, J. R., 1216
 Dirr, D. W., 777
 Ditto, E. B., 317
 Dixon, F. P., 404, 1135
 Dixon, George D., 1072
 Dobbie, J. C., 935
 Dodd, A. F., 1623
 Dodge, G. M., 129
 Dodge, J. W., 1073
 Doherty, William, 127, 129
 Dolan, W. H., 820
 Dolard, H. P., 404
 Donaldson, M., 1585, 1623, 1624
 Donley, W. H., 1024
 Dorsett, M. H., 936
 Dougherty, T. C., 33
 Doughty, J. H., 357, 358
 Douglas, Charles G., 129
 Doull, E., 1362
 Dowdell, B. S., 449
 Dowie, E. J., 1135
 Doyle, J. W., 820
 Dozier, E. J., 317
 Dozier, R. H., 72
 Drake, W. B., 126
 Drane, H. T., 72
 Dressel, W. H., 778
 Drury, M. J., 1136, 1217
 Dudley, S. S., 1217
 Dugan, C. P., 316
 Duguid, J., 978
 Duke, H. G., 522
 Dulaney, E. H., 257, 259
 Dumbeck, F. C., 1178
 Dunbar, A. S., 936
 Dunbar, J. R., 358
 Duncan, E. C., 316
 Duncan, W. M., 1623
 Dunlap, J. B., 1135, 1217
 Dunnivant, W. W., 821
 Duperow, W. E., 978
 Durrett, W. B., 404
 Dutton, Alfred S., 216
 Duval, H. S., 72
 Dye, B. F., 172
 Dynes, O. W., 171
- Earling, H. B., 258, 317
 Easley, F. J., 216, 777, 1134
 Easley, R. A., 1216
 Eaton, O. L., 935
 Eber, J. W., 1134, 1177
 Eblan, James, 1024
 Eck, G. H., 449
 Ecker, L. F., 1258
 Eddy, W. J., 698
 Eden, Edward, 72
 Edgar, Thomas P., 776
 Edgcomb, E. F., 1178
 Edmonds, A. S., 405
 Edwards, J. A., 449
 Edwards, J. L., 405
 Edwards, R. W., 33
 Eedson, Thomas, 216
 Eggleston, W. W., 819
 Eicholtz, H. M., 977
 Eidemiller, A. L., 1586
 Eldredge, A. B., 33
 Eldredge, P. C., 258
 Ellerbe, C., 1072
 Elliott, E. M., 34
 Elliott, J. H., 1585
 Daniels, H. S., 1362
 Daniels, W. R., 317
- Empie, H. A., 127
 England, Norton, 405, 449
 English, W. J., 1177, 1361
 Ensign, Ely, 129
 Erb, Newman, 866
 Ernest, H., 1072, 1360
 Erskine, W. H., 405, 450
 Eshleman, R. E., 1024
 Estep, H. C., 1024
 Evans, E. G., 171
 Evans, Louis H., 1136
 Everman, J. W., 171
 Eysmans, J. L., 1075, 1217
- Fahey, Edward H., 403
 Fairbairn, R. L., 1362
 Fairmon, H., 217
 Farnsworth, Ellis, 778
 Farrell, H. E., 976
 Farrell, J. W., 1624
 Faulconer, T. J., 1073, 1217
 Faus, F. H., 404
 Fenchurch, E. J., 358
 Ferguson, J. A., 1362
 Fero, S. J., 522
 Field, H. H., 126
 Fields, J. E. W., 72
 Finnegan, J. D., 127
 Fisher, E. P., 217
 Fisher, George A., 449
 Fisher, V. W., 936
 Fitch, W. A., 1259
 Fitzgerald, D. W., 34
 Fitzgerald, Horace, 1023
 Fitzgerald, J. C., 936
 Fitzgerald, Richard, 776
 Fitzgerald, T. J., 172
 Fitzsimmons, E. S., 73, 358
 Fitzsimmons, J. E., 821
 Flandro, C. E., 259
 Flanagan, M. D., 1074
 Flanagan, M. S., 1362
 Flannely, William, 449
 Fleming, E. M., 129
 Fletcher, John, 73
 Florence, C. A., 404
 Flynn, Walter H., 1217, 1625
 Fogg, W. H., 867
 Foley, M. J., 1134
 Fonda, Arthur, 1259
 Fontaine, A. E., 1361
 Ford, J. B., 1624
 Ford, R. L., 259
 Forster, J. J., 936
 Foss, L. M., 449
 Foster, C. S., 450
 Foster, H. O., 937
 Foster, J. H., 258
 Foster, R. W., 34
 Foster, W. H., 216
 Fowler, R. B., 127, 171
 Fox, C. H., 868
 Fox, G. G., 317
 Frank, Harry L., 1023
 Franklin, C. S., 217
 Fraser, J. H., 1134
 Fraser, William, 258
 Frauenthal, B. W., 936
 Fravel, G. B., 35
 Freeman, James, 449
 Freeman, J. P., 1585
 French, G. M., 403
 Fresenius, J. P., 317, 404
 Frieser, F. G., 404
 Fripp, W. J., 935, 977, 1073
 Fry, E. B., 357
 Fugate, T. E., 821
 Fuhrman, W. S., 34
 Fulkerson, A. H., 72
 Fullen, Charles A., 820
 Fulmore, J. C., 1075
- Gaffin, W. W., 822
 Gaines, R. H., 1586
 Gaither, C. P., 171
 Galbreath, W. O., 868
 Gallagher, C. V., 404
 Galloway, C. W., 977
 Gamble, G. A., 820
 Garber, A. O., 1024
 Garrison, E. K., 259, 522
 Garvey, H. S., 1074
 Garwood, S. S., 1585
 Garwood, W. W., 1623
 Gasner, B. Q., 72
 Gass, H. A., 821
 Gates, A. C., 450
 Gaty, L. C., 316, 317
 Gauld, R. F., 976
 Gauvin, W. E., 317
 Gaven, John J., 1073
 Gavin, F. J., 697
 Geissler, Fred, 259
 Gemlo, William, 173
 George, Z. T., 777
 Geyelin, H. Laussat, 1585
 Gibson, H. R., 34
 Gibson, J. A., 35, 937
 Gibson, J. B., 72
 Gilbert, D. E., 73
 Gilbert, E. A., 1075
 Gilbert, T. H., 777
 Giles, A. P., 1075
 Gilgas, W. W., 820
- Gill, Charles A., 1259
 Gill, William, 173
 Gillespie, W., 978
 Gilroy, Charles, 317
 Gladden, L. R., 1177
 Glascock, T. H., 317
 Glasford, J. A., 1258
 Godwin, H. E., 217
 Gohring, K. A., 522
 Goings, C. E., 73
 Golden, R. N., 1362
 Gollehon, R. L., 1625
 Good, G. W., 73
 Goodnow, T. H., 129
 Goodrich, J. F., 1585
 Goodwin, E. W., 317
 Gossett, C. E., 129, 405
 Gould, Edwin, 976
 Gould, George J., 71
 Gould, J. E., 318
 Gould, J. L., 316
 Gould, J. R., 1625
 Govan, J. F., 1135
 Grace, F. P., 936
 Graham, A. H., 172
 Graham, Fred M., 317
 Graham, H. D., 1362
 Graham, H. L., 819
 Graham, J. W., 34
 Graham, R. H., 821
 Granger, J. W., 697
 Grant, A. J., 404
 Grant, F. T., 1624
 Grant, H. C., 448
 Grattan, Patrick, 1586
 Graves, Dr. A., Jr., 1178
 Gray, Charles N., 129
 Gray, C. R., 1058, 1072
 Gray, D. R., 217
 Gray, E. E., 1361
 Gray, H. H., 34
 Gray, H. J., 777
 Gray, James, 317
 Green, C. H., 259
 Greenly, A. Harry, 129
 Greer, B. B., 33
 Greiner, J. E., 129
 Gresham, W. B., 259
 Gribbling, H. J., 317
 Grier, W. T., 73
 Griffin, E. C., 1024
 Griffin, J. M., 778
 Griffin, M. J., 867
 Griner, W. L., 1362
 Grooch, R. W., 978
 Gross, John M., 1075
 Grout, Horace C., 777
 Gruber, L. D., 936
 Grundy, F. S. L., 1360
 Grutchfield, W. G., 129
 Grymes, Arthur J., 1023
 Gucker, Robert C., 72
 Guernsey, N. T., 403
 Guess, John H., 35, 130
 Guilfoil, T. J., 1585
 Gulick, C. H., 1362
 Gunzleman, W. H., 867
 Gutelius, F. P., 258, 357
- Hackley, G. R., 936
 Hagerman, James, 1177, 1258
 Hagerty, M. A., 1362
 Haile, B. M., 867
 Hair, John, 1075
 Hait, F. N., 448
 Hale, H. C., 126
 Hale, H. H., 1075
 Haley, J. A., 937
 Haley, William F., 1134
 Hall, W. S., 1259
 Hallmark, H. C., 358
 Hallock, H. M., 217
 Hamilton, Charles, 1217
 Hamilton, Paul, 821
 Hamilton, T. B., 33
 Hammill, John B., 1259, 1361
 Hammond, G. H., 72
 Hancock, F. W., 867
 Handy, A. K., 34
 Hanger, K. H., 217, 449
 Hanley, W. S., 129
 Hanna, C. L., 404
 Hansen, J. E., 128
 Hansen, William, 449
 Hanson, A. N., 217
 Hanson, E. J., 217, 259
 Hanson, F. H., 217
 Hanson, J. E., 217
 Harbaugh, C. L., 34
 Harden, H. F., 72
 Hardin, J. D., Jr., 1074
 Hardin, A. T., 819, 866
 Hardin, W. M., 34
 Harding, N. D., 34
 Hardisty, G. W., 522
 Harland, W. H., Jr., 129
 Harleman, G. M., 258
 Harlow, John A., 1135
 Harner, G. S., 317
 Harold, L. H., 867, 1024
 Harper, J. H., 867
 Harrington, E. L., 217, 259
 Harris, G. B., 1624
 Harris, G. H., 1625

- Harris, G. W., 821
Harris, J. M., 34, 72
Harris, Page, 171
Hart, W. F., 73, 821
Harter, E. M., 1023
Hartigan, C., 1586
Hartley, B. H., 1586
Hartley, M. L., 1024
Hartman, G. T., 35
Harty, Edward, 1259
Harvey, C. C., 171
Hassman, L. E., 172, 259
Hastings, E. C., 129
Hatch, M. C. M., 1259
Hatton, A., 357
Hatton, E. M., 73
Haupt, S. B., 71
Hawkins, Morris S., 316
Hawley, Edwin, 257
Hawley, Fred M., 1177, 1624
Hawley, H. W., 867
Hayden, E. G., 1362
Hayes, D. W., 1024
Hayes, E. F., 403
Hayes, J. L., 449
Haynes, H. L., Jr., 72
Hays, Charles M., 976, 1193, 1216
Hayward, Henry S., 130
Hayward, H. M., 449
Healey, I. L., 259
Healy, J. D., 317
Healy, W. J., 866
Heaman, J. A., 978, 1259
Heathorn, Arthur, 937
Heckendorf, A. H., 1178
Heed, T. D., 126
Heleniak, Henry, 1024
Hellen, Joseph, 129
Helm, H. B., 1072
Helwig, J. B., 34
Helwig, P. W., 129
Hemingway, W. E., 819
Henderson, A. K., 318
Henderson, G. C., 820
Henderson, H. W., 867
Henderson, Col. W. A., 126
Henry, J. M., 129
Hensley, L. J., 357
Henson, C. E., 522
Hermann, A., 1360
Herr, F. C., 317
Herr, G. F., 1074
Hevron, D. B., 1075
Hewitt, John A., 777
Hewson, E. G., 405
Heyman, C. R., 259
Hibbard, G. W., 34
Higgins, E. P., 976
Higgins, J. W., 33, 128
Higginson, O. F., 1177, 1362
Hilberry, H. H., 35
Hilbourne, Harry C., 72
Hill, C. R., 777
Hill, James J., 1058, 1072, 1342, 1360
Hill, Louis W., 1058, 1072, 1342, 1360
Hill, Oscar L., 936
Hillis, J. A., 819
Hillman, A. J., 34
Hills, J. E., 1177
Himes, C. R., 1624
Hine, Maj. Charles, 127
Hine, W. C., 449
Hinkle, C. L., 697
Hitch, C. M., 172
Hobbs, O. H., 1073
Hodge, George, 357, 448
Hodgins, A. E., 1362
Hodgson, F. D., 1258
Hoff, Frederick, 316
Hoffman, J. M., 1023
Hogan, M. M., 72
Holbert, H. B., 448, 449
Holbrook, E. F., 1023
Holden, J. C., 868, 1075
Holder, R. V., 1024
Hole, C. W., 1177, 1585
Holmes, Charles H., 1072
Holt, W. S., 976
Holtz, P. L., 936
Holzapfel, F. S., 937
Homan, W. H., 127
Honaker, H., 1024
Honn, E. E., 357, 403
Hook, E. E., 1074, 1217
Hoover, E. B., 404
Hoover, H. H., 71, 72
Hopkins, J. W., 33
Hopkins, W. A., 777
Horn, H. J., 1258
Hoskin, W. J., 1024
Hotchkiss, C. W., 866, 936
Houk, G. C., 34
Houlihan, W. J., 33
Houston, C., 937
Houston, W. O., 1625
Hoving, Henry, 821, 936
Howard, C. K., 449
Howard, Frank A., 34
Howard, J. E., 866
Howard R. H., 316
Howard, Tracey, 522, 978
Howard, W. G., 1178
Howe, H. F., 868
Howell, H. W., 1024
Howren, A., 1362
Hoy, C. P., 1259
Huber, Otto, 403
Hudgins, Col. Henry C., 216
Hudson, W. R., 316
Huertas, J. C., 404
Huff, Volney E., 72
Hugel, George B., 259
Hughes, H. D., 1362
Hughes, J. H., 1586
Humber, C. C., 317
Hunt, Frank, 1023
Hunter, B. F., 1585
Hurley, R. P., 1362, 1624
Hurley, W. E., 72
Hurst, W. C., 1259
Hutchins, J. M., 820
Hutchinson, A. E., 819
Hutchinson, G. W., 698, 820
Hyams, J. W., 1074
Hynes, M. V., 698, 1361, 1362
Ingersoll, H. L., 935
Irving, T. T., 697, 698
Irwin, J. C., 698
Isaacs, John D., 172
Jacobs, Henry W., 1624
Jacobs, J. W., 404
James, F. S., 127, 403, 1624
James, John Moore, 73
James, J. W., 977
Jamison, T. E., 935
Jarrott, Bowman, 1177
Jeffers, W. B., 258
Jeffery, E. T., 71
Jeffries, A. L., 936
Jeffries, L. E., 126
Jenkins, A. C., 937
Jenkins, Frank L., 449
Jenks, C. O., 522
Jenks, W. J., 1216
Jenney, H. T., 404
Jodon, Loyd, 449
Johnson, A. N., 449
Johnson, B. O., 1361
Johnson, C. O., 1258
Johnson, George P., 1177, 1216
Johnson, O. F., 73
Johnson, R., 35
Johnson, S. H., 821
Johnston, C. C., 129
Johnston, C. O., 819
Johnston, H. B., 358
Jones, C. W., 216, 258
Jones, E. M., 1074
Jones, F. E., 1216
Jones, Fred M., 1258
Jones, G. C., 1072
Jones, L. B., 866
Jones, Leslie M., 1586
Jones, M. K., 867
Jones, M. W., 935, 1361
Jones, S. J., 697, 867
Jones, W. A., 1023
Jones, W. D., 259
Jordan, E. M., 522
Jordan, J. W., 1074
Jordan, P. A., 1073
Joslyn, H. W., 33
Judge, P. J., 819
June, Jesse G., 216
Jung, Arthur, 937
Kahl, F. H., 448
Karcher, J., Jr., 1024
Katzenbach, L. E., 33, 216
Kavanagh, J. P., 1072
Keaveny, T., 217
Keefer, J. R., 1586
Keehan, M. E., 1072
Kegler, W. C., 821
Kelby, James E., 33
Kelby, W. B., 936
Kelley, E. A., 171
Kelliher, B. B., 405
Kellogg, J. L., 405
Kelly, Albert M., 1023
Kelly, J. G., 129
Kelly, J. W., Jr., 258, 1073, 1134
Kemp, P. E., 171
Kempf, J. C., 1178
Kendig, R. B., 778
Kennedy, T., 978
Kennedy, Thomas W., 777
Kennelly, M. J., 216
Kenzel, C. H., 35
Keppler, W. J., 936
Kilpatrick, J. B., 778, 821
Kilway, C. C., 127
Kimball, C. P., 1624
Kimbrough, R. P., 1177
King, Edward S., 936
King, H. F., 317
King, Robert, 448
Kingston, Charles E., 1075, 1178
Kinnear, W. S., 697, 976
Kinsman, G. C., 1134
Kirby, W. S., 33
Kitchen, B. F., 778
Klenke, J. J., 259
Knapp, H. S., 317
Knickerbocker, C. E., 35
Knight, N. F., 404
Knowles, C. I., 868
Knowles, W. C., 358
Knox, Walter E., 258
Kobzina, J. O., 936
Koch, W. G., 127
Koeneman, Erwin G., 317
Koepsell, Charles J., 129
Korn, L. L., 217
Kramer, LeRoy, 1258
Krausch, Walter T., 522
Krick, C. S., 71
Kruger, C. J., 1624
Kuhns, John C., 173
Kummer, George H., 358
Kurtz, Ira F., 777
Kyes, L. J., 217
Kyle, E. D., 72
Labhart, W. T., 259
La Comb, A. N., 820
Ladd, W. R., 778
Laden, Patrick, 1073
Laing, O. M., 33
Laizure, L. R., 73
Lally, W. A., 522
Lamb, E. T., 316
Lambert, R. N., 937
Lamport, W. I., 403
Landers, C. C., 777
Landis, J. S., 217
Landry, J. S., 258
Langford, E. J., 1625
Langston, R. M., 259
Langton, George, 449, 698
Lankey, V. W., 777
Lantz, F. G., 1024
Large, J. B., 1075
Lazier, F. P., 72
Lathrop, W. A., 1072
Laudie, Lucius, 71
Lauer, E. R., 259, 357
Law, F. H., 259
Lawler, F. M., 35
Lawler, Lawrence L., 978
Lawrence, R. E., 73
Lay, R. E., 1217, 1362
Leach, N. M., 71, 72, 258
Leavette, Frank, 778
Lee, F., 821, 868, 1178
Lee, P. O., 72
Leech, Charles C., 217
Leis, E. R., 1586
Lennox, R. A., 259
Lettice, J. C., 1178
Leverich, C. E., 217
Lewis, C. C., 404
Lewis, E. R., 1623
Lewis, H. R., 936
Lewis, W. C., 1362
Leyden, W. T., 173
L'Hommedieu, R. H., 1134
Lifsey, W. V., 171
Lightner, A. D., 316, 357
Lilley, E. C., 357, 403
Lincoln, C., 404
Lincoln, J. C., 936
Lind, Earle, 777, 936
Lindman, S., 217
Linsley, W. B., 820
Linton, J. V., 1361
Little, G. G., 778
Lloyd, Stacy B., 1072
Logan, R., 259
Logan, W. S., 72
Long, P. E., 71
Long, S. S., 822
Longbotham, C. J., 72
Loree, W. C., 977
Lorraine, H. K., 259
Lorton, J. G., 127
Lovett, W. R., 404
Low, C. M., 867
Lowe, J. G., 820
Lowell, George K., 1177
Lowmaster, A. T., 522
Lucas, M. E., 1361
Lucas, R. G., 819
Lucey, J. A., 34
Lucia, L. G., 358
Luff, L. K., 1258, 1360
Lum, D. W., 217, 318
Lund, J. D., 1217
Luscombe, J. T., 405, 449, 450
Lutz, S. G., 34
Luyster, H. V., 820
Lynch, M. J., 522
Lynch, W. R., 217
McAdoo, John H., 1178
MacBride, F. A., 1178
McBride, J. P., 1362
McBrien, J. H., 1024
McCahan, J. C., 1023
McCandless, R. A., 217
McCann, J. W., 404, 522
McCarthy, W. A., 405
McCarthy, E. E., 1177
McCarthy, O. H., 127
McCaskey, George W., 317
McCaull, W. S., 33, 126
McClellan, G. B., 127
McClellan, H. B., 936
McClure, L. E., 216
McCombs, O. A., 358
McCormick, F. A., 1624
McCormick, George, 34
McCoy, Daniel P., 1624
McCrea, E. F., 358
McCullough, J. C., 33
McCurdy, R. H., 778
McDonald, Donald, 448, 777
McDonald, J. A., 358
McDonald, Jesse, 976
McDonough, Joseph, 171
McEwen, Horace, 1072
McFadden, P. H., 358
McFadden, W. W., 697, 1177
McFadridge, A., 1363
McCaughy, Samuel, 821
McGee, L. P., 1259
McGie, J., 216, 217
McGraw, John, 1074
McHattie, T., 821, 978
McHugh, C. T., 819, 867
McIlhon, C. W., 1023
McIntire, L. H., 1178
McIntosh, Stuart H., 316, 357
McIntyre, Philip E., 404
McKay, R. H., 129
McKay, R. J., 34
Mackenzie, A. C., 522
McKeown, W. C., 258
MacKie, J. S., 316
McKinnon, J. H., 1362
Mackrell, Theodore, 1177
McLaughlin, C. E., 522
McLaughlin, H. L., 522
McLean, J. E., 448
McLeod, Sanford F., 318
McMahon, J. F., 1586
McManus, C. B., Jr., 358
McManus, P. L., 819, 867
McMillan, R. J., 129
McPherson, Thomas, 1075
McQuaid, Peter, 1362
Macrae, J. M., 777
McWilliams, J. A., 1178, 1586
Magan, F. T., 777, 978
Magard, H. C., 171
Maher, Edward A., 126
Mahoney, Frank P., 317
Maine, N. M., 1586
Malcolmson, H. T., 819
Malone, C. I., 72, 171
Maney, James, 72
Manley, Mathias, 316
Mann, A. C., 173
Mann, E. C., 357
Mann, L. H., 317
Mann, N. E., 1217
Manthe, C. A., 697
Marble, F. B., 1625
Marlow, W. T., 404
Mars, Addison H., 403
Marsales, B. R., 522
Marsh, Henry, 405
Martin, F. M., 404
Martin, J. M., 1624
Martin, James R., 449
Martin, S. K., 1624
Martin, T. B., 821
Martyn, D. H., 404
Mason, C. T., 317
Mason, W. G., 316
Masteller, M. L., 1361
Mather, W. A., 522, 778
Matters, R., 258
Maver, J. M., 978
Maxwell, G. C., 936
Meehan, J. W., 1073
Meeks, M. S., 777
Meglemry, J. H., 172
Meinhardt, F., 522
Melcher, F. O., 216, 257
Mell, C. G., 820
Mellen, John, 1024
Merchant, W. S., 1135
Merrick, A. R., 1361
Merricks, C. W., 449
Merritt, F. L., 449
Merriweather, H. R., 217
Meyer, F. W., 357
Michaelson, J. A., 404
Miles, Lovick P., 1134, 1258
Miller, A. E., 33
Miller, F. A., 867
Miller, Fred A., 1585
Miller, F. B., 935
Miller, G. P., 217
Miller, Lloyd O., 1178, 1211
Miller, R. D., 1024
Miller, W. M., 1177
Miller, W. R., 217, 867
Mills, John A., 404
Mills, Robert E., 522, 1216
Minnick, F. G., 1134
Minor, C. K., 34
Miranda, A., 867, 936
Mirtz, Phillip P., 778
Mitchell, E. F., 1259
Mitchell, F. B., 448, 819, 1024
Mitchell, T. H., 821
Mitchener, R. W., 1361
Moeller, H. F., 697, 777
Monroe, W. O., 358
Montgomery, T. B., 404
Mooney, T. H., 448
Mooney, W. D., 217
Moore, Edward S., 976
Moore, G. B., 1585
Moore, J. L., 1073
Moore, L. P., 936
Moore, Ralph P., 318
Moore, W. H., 976
More, A. S., 821
Morgan, C. H., 778
Morgan, E. C., 358, 405
Morgan, F. A., 1258

ELECTIONS AND APPOINTMENTS—Continued

- Morgan, J. L., 777
 Morgan, W. D., 171
 Moritz, A., 357
 Morley, W. D., 1362
 Morrill, A. S., 1178
 Morris, A. R., 867
 Morris, C. D., 1586
 Morris, D. R., 1625
 Morris, E., 1361
 Morrison, James, 1362
 Morrison, J. C., 1259
 Morrison, J. I., 357
 Morrison, Philip, 1259
 Morrison, W. W., 316
 Morris, A. J., 1362
 Morrow, S. W., 820
 Morse, C. P., 1024
 Morse, William E., 820
 Morsman, Edgar M., Jr., 522
 Morton, B. R., 172
 Morton, Howard M., 171
 Morton, W. H., 1362
 Motley, Hubert C., 449
 Mowat, G. T., 935
 Mozier, W. R., 819, 866
 Mudd, J. T., 317
 Mudge, H. U., 976
 Muff, W. F., 937
 Mulhern, J. W., 1361
 Mullinix, S. W., 821
 Munde, W. F., 72
 Munyan, C. B., 217
 Murphy, A. H., 1074
 Murphy, D. E., 867
 Murphy, D. J., Jr., 258
 Murphy, F. K., 35
 Murphy, G. W., 258
 Murphy, M. J., 1258
 Murphy, W. J. (D. E.), 819
 Murray, Michael, 977
 Murray, T. S., 1362
 Muse, W. A., 259
 Myers, W. Heyward, 1072
- Nash, E. E., 820
 Nash, W. A., 71
 Neafus, J. M., 34
 Neff, H. J., 404, 1135
 Neff, J. K., 522
 Neff, Nettleton, 33
 Neil, E. A., 259
 Nelms, W. H. L., 1586
 Nelson, F. A., 217
 Nelson, W. D., 936
 Nessle, J. B., 1074
 Nethercot, S. G., 72
 Nettleton, W. A., 73
 New, Harry J., 449
 Newlean, J. W., 357, 403, 448
 Newlin, L. K., 777
 Newton, L. F., 1023
 Newton, O. L., 1074
 Nichols, C. L., 977
 Nicholson, F. L., 318
 Nicles, K. M., 1361
 Niles, E. O., 778
 Nokely, John W., 1258, 1360
 Nolan, Michael, 1023
 Norton, J. M., 405
 Nuelle, J. H., 35
 Nugent, Francis, 450
 Nutt, Henry C., 936, 977
- Oakley, C. B., 317
 Osborne, James, 216, 1134
 O'Brien, E. J., 867
 O'Brien, Franklin A., 1259
 O'Brien, P. J., 977
 O'Brien, W. J., 776
 O'Connell, D., 821
 O'Connor, W. G., 259
 O'Donnell, Thomas, 1023
 Ogden, George D., 1075
 O'Hayer, E. J., 171
 Oler, B. F., 73
 Olhausen, J. T., 1073
 Oliver, E. R., 1586
 O'Neill, J. J., 777
 Orr, J. W., 217
 Orrock, J. W., 698
 Osborne, N. C., 1624
 Osborne, William, 71
 Osgard, B. E. (Nels), 522
 Osgard, Nels, 937
 Otis, R. R., 404
 O'Toole, D., 217
 Overbay, W. P., 172, 358
 Owen, C. M., 1024
 Owen, Harry C., 1134
 Owen, W. F., 126, 257
 Owens, R. W., 1217
- Paetzold, F. L., 216
 Page, Henry A., 404
 Palmer, T. A., 259, 1625
 Parker, A. M., 71
 Parker, Clarence F., 171, 173, 866
 Parker, F. A., 1216
 Parker, G. H., 776
 Parker, W. C., 448
 Parrish, E. J., 1585
 Parsley, O. G., 1623
 Parsons, J. G., 1178
- Partridge, E. E., 259
 Passmore, H. E., 405
 Paterson, R. P., 129
 Patriarche, A., 522
 Patterson, J. C., 404
 Patterson, James S., 34
 Patterson, S. M., 449
 Patton, Charles, 404
 Paul, John, 259
 Payne, I. O., 777
 Pearce, R. A., 820
 Pearman, J. H., 821
 Peck, W. L., 777
 Pedrick, William, Jr., 171
 Pelley, John J., 1073
 Pendell, F. D., 820, 935
 Pendleton, Charles M., 820
 Penick, W. M., 217, 259
 Penn, P. O., 776, 867
 Pepper, J. H., 317
 Perine, D. M., 217, 260
 Perkins, E. D., 697
 Perkins, H. J., 1178
 Perris, F. T., 1178
 Perry, G. A., 405
 Perry, G. R., 867
 Peters, F. W., 1134
 Peters, Paul, 1360
 Petersen, W. H., 778
 Petterson, T. J., 522
 Pettibone, C. A., 73
 Pettus, Fuller & Lapsley, 126
 Peyton, J. H., 778
 Phelps, M. L., 935, 977
 Philbin, D. M., 522
 Phillips, H. C., 821
 Phillips, W., 1259
 Phillips, W. F., 777
 Phoenix, C. R., 259
 Piatt, J. W., 72
 Pickering, J. R., 1258
 Pierson, J. H., 1074
 Pinaire, K. M., 405
 Pinson, F. B., 821
 Plaisted, F. H., 129, 217
 Plant, W. C., 72
 Plotnick, Mark, 1259
 Plumly, C. A., 448
 Plumly, G. W., 522
 Plunkett, Oscar, 1624
 Pollock, A. B., 450
 Pontius, John, 449
 Poole, G. C., 1586
 Pope, George H., 71
 Pope, O. C., 821
 Poronto, H. F., 776
 Porter, E. L., 317
 Porter, George W., 403
 Porter, R. L., 1258
 Porterfield, John F., 1073, 1135
 Post, E. K., 73, 450
 Potton, J., 129
 Power, C. W., 405
 Powers, C. S., 1177
 Prat, H. A., 257
 Pratt, C. B., 216
 Prendergast, A. P., 1075
 Price, W. N., 777, 936
 Prichett, Edward, 1177
 Prince, C. R., 936, 978
 Probst, E. A., 1075
 Proctor, A. E., 259
 Pruitt, C. P., 936, 1024
 Pryor, Thomas B., 1258
 Pullinger, J. G., 72
 Purcell, John, 1072, 1135, 1136
 Purtell, John D., 1624
 Putnam, L. J., 822, 978
 Pyeatt, J. S., 126, 127, 1585
- Quillian, W. C., 1586
 Quinlan, J. J., 976
 Quinn, D., 978
 Quinn, T. B., 1023
- Racey, S. L., 71
 Radley, H. P., 259
 Rainey, P. A., 73
 Rains, G. S., 72
 Rains, L. C., 34
 Ramsdell, A. B., 216
 Ramsey, C. W. P., 698, 821
 Ramsey, Joseph, 1360
 Randall, P. L., 404
 Randolph, V. C., 821, 978
 Ransom, J. T., 404
 Kapelje, J. M., 977
 Raquet, E. H., 1259
 Ratcliff, T. G., 72
 Rawlins, R. B., 72
 Ray, D. L., 317
 Ray, Hal S., 1586
 Raymond, L. H., 1178
 Rea, Samuel, 1072
 Reddig, H. F., 1361
 Redfield, J. A. S., 822
 Redmond, J. T., 34
 Reed, C. F., 449
 Reed, H. L., 216
 Reed, N. H., 522
 Reed, S. G., 129
 Reed, W. S., 1258
 Reese, A. W., 936
 Reeves, C. M., 1362
- Reeves, R. D., 259
 Regan, E. E., 171
 Reid, D. G., 976
 Reid, George T., 1216
 Reiner, A. F., 820
 Rennie, F. T., 217
 Rettinghouse, H., 820, 822, 936
 Reuss, Dr. J. H., 1178
 Reynolds, C. C., 33
 Reynolds, E. B., 72
 Reynolds, H. J., 171
 Reynolds, M. M., 1193, 1216, 1623
 Reynolds, R. F., 259
 Rhett, W. M., 404
 Rhodes, Thomas D., 1177
 Ribe, A. J., 1217
 Rice, M. D., 71
 Rice, Robert, 33
 Richardson, R. W., 822
 Richardson, S., 259
 Ricker, F. H., 126
 Ricks, F. T., 403
 Riddle, E. C., 697
 Ridgway, A. C., 216, 257, 316
 Rightmeyer, John H., 977
 Riley, C. C., 1023, 1073
 Riley, Lewis A., 1072
 Rine, E. M., 33, 128
 Ripley, C. C., 216
 Ripley, F. C., 1178
 Rippin, Charles, 405
 Rison, Jr., J. R., 1073
 Ritchie, J. A., 1362
 Ritchie, Robert R., 1024
 Robb, F. M., 450
 Roberts, F. G., 72
 Robertson, E., 450
 Robertson, J., 1259
 Robertson, James, 72
 Robinson, F. W., 1135
 Robinson, W. L., 1075
 Robson, Grover C., 821
 Rock, E. B., Jr., 259
 Rockwell, F. R., 522
 Rodgers, C. B., 127, 1072
 Rodmar, W. B., 316
 Rogers, S. L., 317
 Rogers, William, 1178
 Rogers, W. G., 1024
 Rose, C. A., 1624
 Rose, W. G., 1259
 Ross, A., 171, 216, 258, 317
 Ross, D. C., 821
 Ross, R. J., 72
 Ross, W. L., 34
 Ross, W. M., 1361
 Roth, H. J., 258
 Roth, J. C., 777
 Rowland, W. I., 1075
 Roxbury, E. C., 820
 Roy, R. O., 1024, 1134
 Royster, J. G., 171
 Rudd, W., 403
 Ruden, C. O., 404
 Rudolph, G. H., 405
 Rufer, S. J., 405, 522
 Ruffer, A., 403
 Ruffer, Augustus E., 1177
 Rumney, T., 73
 Runnion, N. M., 316
 Runyon, H. M., 34
 Rupert, C. L., 216
 Rusch, Frank, 1586
 Russell, T. N., 172
 Rust, G. P., 1360
 Ruth, William West, 449
 Ryan, C. B., 72
 Ryder, E. A., 450
- St. John, R. C., 821, 1024
 Sallee, D., 867, 1072
 Sanders, M. M., 1362
 Sanders, O., 1074
 Sands, George L., 976
 Sargent, George W., 217
 Sargent, Harry B., 171
 Sarrels, A. L., 317
 Satterlee, C. E., 1623
 Saunders, George K., 1585
 Saunders, W. C., 34
 Sayles, Charles J., 936
 Scandrett, H. A., 1134, 1174
 Schaff, Charles E., 776, 819
 Schatzle, X. J., 1624
 Schlacks, C. H., 935
 Schlafge, William, 73, 172
 Schmidt, C. F., 34
 Schoeffel, George J., 403
 Schultz, F. W., 217
 Schwarzell, R. R., 522
 Scott, Guy, 317, 358
 Scott, W. B., 126
 Scott, W. D., 216
 Scudder, O. F., 34
 Scully, J. J., 977, 1023
 Seaman, G., 1259
 Searles, E. J., 260
 Sedam, W. H., 867
 Seibert, J. M., 71
 Sellers, J. M., 1585
 Senger, J. W., 129, 217
 Sesser, John, 358
 Sexton, J. E., 1177
 Shannon, J. R., 34
- Shannon, W. C., 1179, 1217
 Sharp, G. A., 1072
 Sharp, W. E., 129
 Sharritts, V. B., 259
 Shasteen, C. H., 821
 Shaw, T. M., 1217
 Shawhan, C. S., 1586
 Shea, F. L., 1024
 Sheahan, J. F., 216
 Sheedy, J. A., 259
 Sheffer, C. W., 450
 Shelby, C. K., 172
 Sheldon, W. R., 34
 Shepard, Finley J., 216
 Shepard, H. H., 777
 Shepherd, L. B., 820
 Sheppard, F. L., 216
 Sheppard, J. B., 259
 Sheridan, W. J., 777, 820
 Shewe, E. A., 1178
 Shillinger, J. G., 698, 821
 Shire, S. H., 171
 Shirley, W. E., 126
 Shone, B. F., 1178
 Shonts, T. P., 1623
 Shriver, George M., 935
 Shropshire, W. A., 317
 Silverman, Mortimer, 259
 Simmons, Mark E., 777
 Sims, D. J., 1362
 Sinclair, R., 1259
 Sipe, C. D., 819
 Sisson, E. F., 449
 Sisson, F. P., 698
 Skeele, R. M., 258
 Skidmore, T. J., 72
 Slagle, H. A., 358
 Slattery, J. T., 697, 978
 Slaven, R. E., 1360
 Sleight, F. S., 259, 317
 Small, J. A., 522
 Small, J. W., 33, 35
 Smalley, J. B., 1134
 Smiley, E. S., 1178
 Smith, Abram E., 821
 Smith, A. H., 819, 866
 Smith, Clement C., 316
 Smith, C. L., 34
 Smith, D. C., 1259
 Smith, E. C., 1024
 Smith, E. H., 867
 Smith, F. G., 697
 Smith, George A., 1362
 Smith, G. C., 357
 Smith, G. E., 822
 Smith, H. F., 522
 Smith, H. H., 171, 259
 Smith, H. S., 1023
 Smith, J. O., 1586
 Smith, J. W., 1134
 Smith, Marshall B., 1623
 Smith, M. F., 1259
 Smith, M. H., 126
 Smith, P. F., Jr., 35
 Smith, Pearl F., 868
 Smith, P. W. J., 171
 Smith, R. B., 126, 216
 Smith, R. F., 1362
 Smith, Walter A., 404, 1217
 Smith, W. E., 778
 Smith, W. R., 1259, 1362
 Snell, E. M., 317
 Snell, W. H., 404
 Snow, George P., 216
 Snyder, Webster, 822*
 (*Obituary)
 Snyder, W. P., 1179
 Somers, G. O., 1074, 1217
 Sommers, T. M., 820
 Sommerville, D. L., 1134
 Southworth, R. J., 217
 Spahr, J. W., 935
 Spangler, N. W., 1073
 Spangler, W. N., 73
 Sparks, J. B., 522
 Spencer, E. H., 34
 Spencer, George, 1586
 Spencer, H. B., 867
 Spencer, William C., 449
 Spining, I. P., 129, 172
 Spoor, J. A., 776
 Spott, William A., 777
 Squire, H. H., 172, 1362
 Stafford, E. W., 1362, 1586
 Stairs, R. L., 1624
 Stall, Roy A., 171
 Stanberry, J. G., 867
 Stapleton, Frank J., 937
 Starbuck, R. D., 1625
 Stebbins, A. A., 1216
 Steele, Henry, 317
 Steers, W. C., 1259
 Steinhoff, H. W., 1586
 Stemm, J. R., 867
 Stemmons, S. A., 1624
 Stephens, J. R., 1259, 1362
 Sterling, Ernest A., 358
 Stevens, A. E., 1134
 Stevens, John J., 449
 Stevens, R. L., 216
 Stevenson, B. C., 34
 Stevenson, W. F., 404
 Stewart, A. H., 34
 Stewart, C. R., 1023

- Stewart, F., 776
 Stewart, G. K., 522, 698
 Stewart, J. B., 358, 404
 Stimson, W. B., 1259
 Stine, W. I., 1258
 Stinson, J. H., 821
 Stockwell, C. D., 777
 Stohr, P. C., 1135
 Stone, H. M., 449
 Storrs, J. N., 72
 Storrs, L. S., 1360
 Story, S. A., 73
 Stovall, E. F., 449
 Strachan, W. H., 977, 1023
 Strauss, M. H., 449
 Strickland, Samuel G., 819, 820
 Strickler, C. R., 72, 128
 Strong, Alan H., 1072
 Stubbs, John C., 14
 Stubbs, W. D., 73
 Styers, J. V., 72
 Sullivan, A. W., 33, 257
 Sullivan, Charles, 978
 Sullivan, C. A., 1362
 Sullivan, D. E., 1074
 Sullivan, Edward S., 821
 Sullivan, M. J., 33
 Sullivan, W. R., 71
 Sutherland, F. P., 1586
 Swain, W. E., 317
 Swayze, H. D., 1178
 Switzer, E. M., 72
 Syme, Andrew, 1586
 Tait, John A., 1362
 Talbot, Percy, 820
 Talmage, J. C., 697
 Tansley, William, 1023, 1135
 Tapp, George F., 217
 Tarrant, E. C., 522
 Tate, D'Arcy, 819
 Tatnall, Henry, 1072
 Taylor, C. C., 259
 Taylor, Clarence D., 1177
 Taylor, C. M., 821
 Taylor, Frank, 698, 821
 Taylor, F. W., 937
 Taylor, Howard D., 73
 Taylor, J. G., 977, 1023
 Taylor, J. H., 522
 Taylor, O. H., 34
 Telfer, R. V., 697
 Templeton, J. N., 405
 Terrell, Roy, 522
 Terry, J. L., 1624
 Thayer, J. B., 1072
 Thayer, J. E., 777, 1586
 Thayer, Otis, 778
 Thayer, Walter, 1075
 Thomas, C. E., 868
 Thomas, Charles E., Jr., 1217
 Thomas, Edward, 522, 778
 Thomas, F. W., 1178
 Thomas, G. N., 72
 Thomas, George W., 778, 820
 Thomas, J. W., 317
 Thomas, M. E., 822
 Thomas, O. C., 171
 Thompson, Albert, 34
 Thompson, A. W., 935, 977
 Thompson, C. S., 259
 Thompson, F. H., 1178, 1362
 Thompson, H. G., 34
 Thompson, W. S., 259
 Thomson, G. L. A., 34
 Thomson, R. B., 776
 Thomson, Samuel G., 73, 1362, 1586
 Thorn, J. O., 129
 Thorpe, John, 821
 Tierney, J. E., 1362
 Tiley, William G., 258
 Tinsman, W. S., 216, 257
 Tipton, C. L., 72
 Tipton, J. J., 1072
 Tobin, Garland, 217
 Todd, Benjamin H., 449
 Todd, G. C., 1361, 1585
 Todd, M. J., 404
 Tollerton, W. J., 821
 Tombs, Guy, 1362
 Tomlinson, Charles W., 1074
 Towne, Walter J., 820, 822
 Townsend, Oscar, 1217
 Traber, Herman L., 777, 820
 Trapp, W. G., 259, 317
 Traynor, Andrew, 34
 Treford, W. R., 778
 Trimble, W. W., 34
 Trout, John F., 1585
 Truesdale, F. P., 1075
 Trumbull, A. G., 73
 Trumbull, Frank, 277
 Trump, William D., 448, 522
 Tucker, E. C., 404
 Tucker, W. B., 216
 Turlington, O. C., 1024
 Turnbull, R. J., 34
 Turner, C. D., 1024
 Turner, E. Horton, 448
 Turner, J. J., 1360
 Turner, J. M., 403, 522
 Turner, R. A., 777
 Turpin, C. J., 1586
 Turrentine, T. J., 821
 Tustin, J. S., 819
 Tyler, J. M., 1624
 Valentine, C. W., 403
 Van Auker, A. M., 73
 Van Auker, S., Jr., 317
 Vanderbilt, W. K., Jr., 448
 Vanderblue, F. J., 1178
 Vaughn, C. L., 777, 819, 820, 822
 Veitch, C. W., 1623
 Verlander, C. F., 1624
 Vickers, T. M., 522, 868
 Vigor, C. F., 34, 867
 Vilas, George B., 820, 867
 Vivian, E. H., 1178
 Volkman, Sheldon, 1024
 Voltz, C. L., 259
 Von Dorn, A. O., 777
 Voorhees, H. B., 1023, 1073
 Waddell, J. T., 697
 Wade, A. J., 1362
 Wagner, A. S., 172
 Wainwright, William, 976, 1193, 1216, 1623
 Waldo, Gentry, 129
 Waldron, A. B., 317
 Walker, A. E., 216, 217
 Walker, J. K., 778
 Walker, J. L., 404
 Walker, P. O., 1178
 Walker, Roberts, 976
 Wallace, B. H., 72
 Wallace, H. U., 126
 Wallace, J. C., 976
 Wallace, W. L., 1074
 Wallis, J. T., 129
 Walmsley, A. B., 73, 1362
 Walsbrough, James, 1023
 Walsh, James F., 1587, 1625
 Walsh, J. J., 35
 Walton, P. G., 819, 1585
 Walton, T. S., 819
 Wanamaker, H., 1178
 Wanklyn, F. L., 448
 Ward, T. W., 1216
 Wardwell, H. F., 317
 Warfield, Frank, 259
 Warner, Glenn, 1362
 Warner, W. P., 259
 Warren, Benjamin S., 1177
 Warren, C. F., 1586
 Waterhouse, Joseph, 937
 Waterhouse, Frank, 216
 Waterman, C. A., 217
 Waters, Dudley E., 866
 Watkins, H. M., 71
 Watson, H. W., 72
 Watson, J. H., 522, 778
 Watson, Stanley H., 777
 Wayman, W. A., 259
 Wayne, C. D., 259
 Ways, Robert B., 449
 Wear, F., 1177
 Weaver, G. C., 1360
 Weaver, G. M., 1178, 1362
 Weaver, L. A., 259
 Webb, Charles H., 259, 317
 Webb, E. R., 1217
 Webb, J. D., 317
 Webb, W. A., 1216, 1624
 Webber, F. H., 936, 978
 Wegener, F. H., 73
 Weisbrod, P. F., 1259
 Welch, James R., 777
 Welch, W. C., 33
 Wells, E. C., 126
 Wells, R. E., 936
 Wells, W. J., 358
 Welsh, H. B., 450, 1178
 Wemple, F. L., 777, 867
 Werlich, C. A., 34
 Werne, J. A., 405
 Wescott, C. R., 1259
 West, George F., 1024
 Whaley, C. L., 72
 Whaley, George P., 937
 Wheeler, E. J., 449
 Whelan, Ernest R., 172, 217
 Whitaker, E. L., 259
 Whitcomb, H. F., 316
 White, C. S., 449
 White, Fred J., 318
 White, I. F., 698
 White, P. T., 1216
 Whitenton, W. M., 216, 777, 1624
 Whiting, H. R., 1362
 Whitmore, W. E., 1624
 Whitridge, Frederick W., 126
 Whittlesley, Charles A., 171
 Wickham, P. J., 34
 Wight, Fred, 697, 777
 Wilder, C. R. L., 936
 Wilhelm, T. H., 449, 522
 Wilkinson, A. E., 1178
 Williams, A., 867
 Williams, D. A., 1363
 Williams, Henry A., 403
 Williams, H. C., 778
 Williams, J. E., 34, 129
 Williams, N. A., 697
 Williams, R. B., 257
 Willis, A. N., 1259
 Wilson, E. A., 358
 Wilson, E. L., 697
 Wilson, F. D., 1178
 Wilson, G. N., 357
 Wilson, G. W., 819
 Wilson, R. M., 172
 Winchell, B. L., 126
 Windle, T., 405
 Windsor, G. H., 448
 Windsor, John E., 171
 Winnfield, W. H., 72, 129
 Winslow, E. D., 448
 Wixon, Ray, 978
 Wolf, M., 405
 Wolfenden, W. E., 777, 937
 Wolterstorff, F. W., 1135
 Womble, W. G., 404
 Wood, E. B., 522
 Wood, F. L., 404
 Wood, George, 404
 Wood, J. C., 404
 Wood, W. B., 33
 Woodruff, Robert E., 1177
 Woods, George, 35
 Woods, H. A., 405
 Woodul, C. B., 1362
 Woodridge, N. C., 778
 Word, George L., 1624
 Worthington, B. A., 1607, 1623
 Worthington, William Alfred, 126
 Wright, Bayard, 34
 Wright, E. J., 1073
 Wright, R. C., 1074, 1075
 Wulff, J. R. L., 1075, 1178
 Wyatt, W. R., 1586
 Yeaton, H. T., 1178, 1362
 Yeomans, G. G., 403
 Yerkes, S. G., 698
 Yoakum, C. O., 316
 Young, F. A., 1362
 Young, F. J., 404
 Young, J. H., 1072, 1177
 Young, Walter C., 217
 Yutz, H. C., 34
 Zeigler, E. H., 403
 Zerbe, F. J., 450

INTERSTATE COMMERCE COMMISSION AND COMMERCE COURT RULINGS

[See also General Index.]

- Alabama Lumber & Export Co. v. Louisville & Nashville et al., 813
 Albree, George, v. Boston & Maine, 356
 Alpha Portland Cement Co. v. Baltimore & Ohio et al., 402
 Arlington Heights Fruit Exchange et al. v. Southern Pacific et al., 31
 Ashgrove Lime & Portland Cement Co. et al. v. Atchison, Topeka & Santa Fe et al., 1621
 Association of Bituminous Coal Operators of Central Pennsylvania v. Pennsylvania Railroad, 1132
 Atlantic Refining Co. v. Baltimore & Ohio et al., 1214
 Baltimore & Ohio Southwestern and Norfolk & Western v. U. S. and Cincinnati & Columbus Traction, I. C. C. intervener, 865
 Baltimore Chamber of Commerce v. Baltimore & Ohio et al., 816
 Beaumont & Great Northern v. Atchison, Topeka & Santa Fe et al., 1621
 Bewsher Co. v. Union Pacific, 30
 Black, R. R. v. Great Northern, 1214
 Blodgett Milling Co. v. Chicago, Milwaukee & St. Paul et al., 1214
 Bluefield Shippers' Association v. Norfolk & Western et al., 443
 Board of Railway Commissioners of Kansas v. Atchison, Topeka & Santa Fe, 443
 Boileau, John W., et al. v. Pittsburgh & Lake Erie, 1621
 Brooklyn Cooperage Co. v. Illinois Central, 356
 Brook-Rauch Mill & Elevator Co. v. St. Louis, Iron Mountain & Southern et al., 168
 Brunswick-Balke-Collender Company v. Atchison, Topeka & Santa Fe et al., 1175
 Businessmen's League of Alberta Lea, Minn., v. Baltimore & Ohio, et al., 1621
 Byrnes, Edward, trustee for H. Woods Co., bankrupt, v. Atchison, Topeka & Santa Fe et al., 813
 Byrnes, Edward, trustee for H. Woods Co., bankrupt, v. Atlantic Coast Line et al., 1021
 Carstens Packing Co. v. Southern Pacific et al., 1021
 Casey-Hedges Co., v. Alabama Great Southern et al., 974
 Central Commercial Co. v. Gulf & Ship Island et al., 1256
 Chamber of Commerce of Ashburn, Ga., et al. v. Georgia Southern & Florida et al., 975
 Chamber of Commerce of City of Augusta v. Southern Railway et al., 168
 Chamber of Commerce of Houston, Tex., et al. v. Galveston, Harrisburg & San Antonio et al., 974
 Chamber of Commerce of Newport News, Va., v. Southern Railway et al., 1132
 Chamber of Commerce of the State of New York et al. v. New York Central & Hudson River et al., 1583
 Chattanooga Feed Co. v. Alabama Great Southern, 399
 Chicago, Wilmington & Vermillion Coal Co. v. Chicago, Burlington & Quincy et al., 775
 Citizens of Somerset, Md., Drummond and Friendship Heights v. Washington Railway & Electric Co. et al., 124
 City of Spokane et al. v. Northern Pacific et al., 1175
 Clyde Coal Co. v. Pennsylvania Company et al., 933
 Cohen, Michael & Co. v. Mallory Steamship Co. et al., 1066
 Colonial Salt Co. et al. v. Michigan, Indiana & Illinois Line et al., 1066
 Colorado Coal Traffic Association v. Atchison, Topeka & Santa Fe et al., 168
 Colorado Coal Transportation Association v. Denver & Rio Grande et al., 1175
 Continental Iron & Steel Co. v. Louisville & Nashville, 215
 Corporation Commission of Oklahoma v. Abilene & Southern et al., 1355
 Corporation Commission of Oklahoma v. Atchison, Topeka & Santa Fe et al., 1257
 Cosby, W. G., v. Richmond Transfer Co. et al., 775
 Crescent Coal & Mining Co. v. Baltimore & Ohio, 816
 Crescent Coal & Mining Co. v. Chicago & Eastern Illinois, 1621
 Curtis Bros. & Co. v. Southern Pacific et al., 1066
 Davis Sewing Machine Co. v. Pittsburgh, Cincinnati, Chicago & St. Louis, 215
 De Camp Brothers & Yule Iron, Coal & Coke Co. v. Virginia & Southwestern et al., 168
 Denver & Rio Grande v. I. C. C., U. S. intervening, 866
 Du Pre, E. M., Co. et al. v. Buffalo, Rochester & Pittsburgh et al., 974
 Edison Portland Cement Co. v. Delaware, Lackawanna & Western et al., 399
 Eldorado Oil Mills & Fertilizer Co. v. Chicago, Rock Island & Pacific, 215
 Electric Malting Co. v. Atchison, Topeka & Santa Fe et al., 1066
 Elmore-Benjamin Coal Co. v. Cleveland, Cincinnati, Chicago & St. Louis et al., 399
 Empson Packing Co. v. Colorado Midland et al., 168
 Escanaba Business Men's Association et al. v. Ann Arbor et al., 1583

INTERSTATE COMMERCE COMMISSION AND COMMERCE COURT RULINGS—Continued

[See also General Index.]

- Fairmount Creamery Co. v. Chicago, Burlington & Quincy, 168
 Fels & Co. v. Pennsylvania Railroad et al., 1215
 Ferguson, C. E., Saw Mill Co., v. St. Louis, Iron Mountain & Southern et al., 974
 Galveston Commercial Association et al. v. Galveston, Harrisburg & San Antonio Railway et al., 1355
 Gamble-Robinson Commission Co., et al. v. St. Louis, Iron Mountain & Southern, 30
 Gay Coal & Coke Co. et al. v. Chesapeake & Ohio et al., 1215
 Georgetown Railway & Light Co., v. Norfolk & Western et al., 30
 Gile, H. S., & Co. et al. v. Southern Pacific et al., 356
 Gill, J. K., et al. v. Oregon Railroad & Navigation et al., 399
 Grand Junction Chamber of Commerce v. Denver & Rio Grande Railroad Company et al., 1132
 Heath Hardware Co. et al. v. Pennsylvania Railroad et al., 168
 Holland Blow Stave Co. v. Atlantic Coast Line et al., 1622
 Houston Packing Co. v. Texas & New Orleans, et al., 399
 Humboldt Refining Co. v. Missouri, Kansas & Texas et al., 356
 Huntington Lumber Co. v. Illinois Central et al., 1355
 Indianapolis Freight Bureau v. Cleveland, Cincinnati, Chicago & St. Louis et al., on rehearing, and Railroad Commission of Indianapolis v. Wabash Railroad et al., 974
 In re absorptions provided for in tariffs of the Louisiana Railway & Navigation Co. for the movement of sugar, 816
 In re advances in rates from Chicopee, Mass., to New York via Chatham, N. Y., and Rensselaer, 1021
 In re alleged unreasonable rates and practices in the transportation of livestock, packinghouse products, and fresh meats from various Southwestern points to packing houses, and from thence to various destinations, 30
 In re application and use of mileage, excursion and commutation tickets for through transportation in connection with other lawfully established rates, 930
 In re application of Southern Pacific for relief under the Fourth Section, 1582
 In re import cases, 1582
 In re investigation and suspension of advances in rates by carriers for the transportation of flaxseed in carloads from Fort William, Port Arthur and Westport, Ont., to New York, Philadelphia and other points, 1021
 In re investigation and suspension of advances in rates by cars for the transportation of cotton and cotton linters, 1175
 In re investigation and suspension of certain regulations and practices with regard to pre-cooling and pre-icing, 974
 In re suspension of advances in class rates, 399
 In re suspension of advances in rates by carriers for transportation of apples in carloads, 1622
 In re suspension of advances in rates by carriers for the transportation of soft coal, 1623
 In re suspension of advances in rates on iron and steel articles, 399
 In re suspension of advances in rates on lemons, C. L., from California to Colorado, Utah, Montana, etc., 775
 In re suspension of advances in rates on packinghouse products from Wichita, Kan., to points in Louisiana, 1257
 In re suspension of advances in rates on potatoes, 816
 In re suspension of advances in rates on single packages and small lots, 356
 In re suspension of advances in rates on stock cattle and sheep, 773
 In re suspension of an advance in the rate by the Delaware & Hudson for milk, 1215
 In re wharfage charges of the Galveston Wharf Company, 1215
 International Agricultural Corporation v. Louisville & Nashville et al., 401
 Johnson, Edwin D., v. Minneapolis, St. Paul & Sault Ste. Marie, 169
 Jouannet, Alfred, v. Atlantic Coast Line et al., 1214
 Kansas City, Mo., and Kansas City, Kan., v. Kansas City Viaduct & Terminal et al., 1355
 Kennedy, M. A., & Co., v. St. Louis Southwestern et al., 168
 Lamb, McGregor & Co., v. Chicago & North Western et al., 401
 Leggett & Platt Spring Bed & Manufacturing Co. v. Missouri Pacific et al., 448
 Liberty Mills v. Louisville & Nashville et al., 930
 Lindsay Bros. v. Lake Shore & Michigan Southern et al., 517
 Lord & Bushnell Co. v. Mississippi Central et al., 399
 Ludowici-Celandon Co. v. Missouri Pacific et al., 813
 McCloud River Lumber Co. v. Southern Pacific et al., 1621
 McClung, C. M., & Co. et al. v. Louisville & Nashville et al., 1214
 McClung, C. M., & Co. v. Southern Railway, 813
 McLean Lumber Co. v. Louisville & Nashville et al., 356
 Marian Coal Co. v. Delaware, Lackawanna & Western, 1622
 Maricopa County Commercial Club v. Maricopa & Phoenix Railroad et al., 169
 Maricopa County Commercial Club v. Phoenix & Eastern et al., 169
 Maricopa County Commercial Club v. Santa Fe, Prescott & Phoenix et al., 169
 Marion Iron & Brass Bed Co. v. Toledo, St. Louis & Western et al., 168
 Massee & Felton Lumber Co. et al. v. Southern Railway et al., 934
 Mattison, Cyrus C., v. Pennsylvania Company, 1020
 Mayor and Council of Boston, Ga., v. Atlantic Coast Line et al., 1622
 Medford Traffic Bureau v. Southern Pacific, 1355
 Meeker, Henry E., v. Lehigh Valley, 1214
 Memphis Freight Bureau et al. v. St. Louis, Iron Mountain & Southern and St. Louis & San Francisco, 816
 Memphis Freight Bureau et al. v. St. Louis Southwestern et al., 517
 Merchants' & Manufacturers' Association et al. v. Pennsylvania Railroad et al., 1176
 Merchants' and Manufacturers' Association of Baltimore et al. v. Atlantic Coast Line et al., 448
 Merchants' and Manufacturers' Association of Baltimore, Md., v. Atlantic City Railroad et al., 864
 Meredith, J. J., Shelby Taylor and Henry B. Schreiber, constituting the Railroad Commission of Louisiana, v. St. Louis Southwestern et al., 747
 Michigan Hardwood Manufacturers' Association v. Transcontinental Freight Bureau et al., 401
 Milburn Wagon C. v. Lake Shore & Michigan Southern et al., 517
 Minneapolis Traffic Association et al. v. Chicago & North Western et al., 1215
 Minneapolis Traffic Association v. Chicago, Burlington & Quincy et al., 168
 Mobile Chamber of Commerce et al. v. Mobile & Ohio et al., 1175
 Mutual Rice Trade & Development Association of Houston v. International & Great Northern et al., 974
 National Manufacturing Co. v. Atchison, Topeka & Santa Fe, 816
 National Mohair Growers' Association v. Atchison, Topeka & Santa Fe et al., 930
 National Pole Co. v. Chicago, St. Paul, Minneapolis & Omaha et al., 356
 National Refining Co. v. Missouri, Kansas & Texas et al., 1256
 Nebraska State Railway Commission v. Chicago, Burlington & Quincy et al., 864
 Neilson, A. V., Co., Ltd., v. Louisiana Railway & Navigation Co. et al., 1020
 New England Coal & Coke Co. v. Norfolk & Western et al., 401
 New Orleans Board of Trade, Ltd., v. Galveston, Harrisburg & San Antonio et al., 974
 New Orleans Board of Trade, Ltd., v. Illinois Central et al., 1215
 New Orleans Board of Trade v. Louisville & Nashville, 1214
 New Roads Oil Mill & Manufacturing Co., Ltd., v. St. Louis, Iron Mountain & Southern et al., 1621
 Noble, William K., v. Baltimore & Ohio et al., 401
 Norfolk & Western et al. v. U. S., I. C. C., Corporation Commission of North Carolina, 865
 Norman Lumber Co. et al. v. Louisville & Nashville et al., 169
 Omaha Grain Exchange v. Chicago, Milwaukee & St. Paul, 1622
 Paducah Cooperage Co. v. Nashville, Chattanooga & St. Louis, 168
 Perry, Charles T., & Co. v. Northern Pacific et al., 974
 Pierce, George E., v. Pittsburgh & Lake Erie et al., 816
 Portsmouth Steel Co. v. Baltimore & Ohio et al., 1355
 Priesmeyer, A., Shoe Co. v. Chicago & Alton et al., 813
 Public Service Commission of Washington v. Northern Pacific et al., 1021
 Railroad Commission of Nevada v. Southern Pacific et al. Maricopa County Commercial Club v. Santa Fe, Prescott & Phoenix et al., 1176
 Railroad Commission of Oregon v. Oregon Railroad & Navigation Company et al. and National Wool Growers' Association v. Oregon Short Line Railroad Company et al., 933
 Railroad Commission of Nevada v. Nevada-California-Oregon Railway and Sierra Valleys Railway, 169
 Ralston Townsite Co. et al. v. Missouri Pacific, 356
 Rates and Practices of the Louisiana Railway and Navigation Company, 697
 Red Path-Vawter Chautauqua System v. Atchison, Topeka & Santa Fe et al., 30
 Red River Oil Co. et al. v. Texas & Pacific et al., 1175
 Reno Grocery Co. v. Southern Pacific, 1214
 Reno Wholesale Liquor Store, Inc., v. Southern Pacific, 1256
 Republic Metal Ware Co. v. Erie et al., 813
 Richards, E., v. Atlantic Coast Line, 974
 Sanquineti, E. F., v. Illinois Central et al., 124
 Santa Rosa Traffic Association v. Southern Pacific et al., 1622
 Silvester, R. W., et al. v. City & Suburban Railway of Washington et al., 168
 Simpson, Frank, Fruit Co. v. Wells Fargo & Co., 1214
 Sioux City Terminal Elevator Co. et al. v. Chicago, Milwaukee & St. Paul et al., 864
 Smith-Booth-Usher Co. v. Lake Shore & Michigan Southern et al., 1021
 Southern Illinois Millers' Association v. Louisville & Nashville et al., 1256
 Standard Oil Co. v. Illinois Terminal Co. et al., 1066
 State of Iowa et al. v. Atlantic Coast Line et al., 1621
 South Atlantic Waste Co. v. Southern Railway et al., 215
 Stiritz, Paul, v. New Orleans, Mobile & Chicago et al., 813
 Stonega Coke & Coal Co. et al. v. Louisville & Nashville, 775
 Suffern, William H., Grain Co. v. Illinois Central et al., 70
 Sun Company v. Indianapolis Southern et al., 168
 Sunderland Brothers Co. v. Missouri Pacific et al., 30
 Sunderland Brothers Co. v. St. Louis & San Francisco et al., 1021
 Superior Commercial Club of Superior, Wis., v. Great Northern et al. Chamber of Commerce of the City of Milwaukee v. Chicago, Milwaukee & St. Paul et al. Duluth Board of Trade v. Great Northern et al., 1622
 Swift & Co. v. Missouri Pacific et al., 356
 Switzer Lumber Co. v. Alabama & Mississippi Railroad et al., 401
 Texas Seed & Floral Co. v. New York, Chicago & St. Louis et al., 1355
 Thropp, Joseph E., v. Pennsylvania Railroad et al., 1215
 Traffic Bureau, Merchants' Exchange of St. Louis v. Chicago, Burlington & Quincy et al., 401
 Traffic Bureau of the Sioux City Commercial Club v. Chicago & North Western et al., 30
 Transportation Bureau of Wichita, Kan., v. St. Louis & San Francisco et al., 1583
 Traugott Schmidt & Sons v. Michigan Central et al., 1256
 Van Natta Brothers et al. v. Cleveland, Cincinnati, Chicago & St. Louis et al., 775
 Vulcan Iron Works Co. v. Atchison, Topeka & Santa Fe et al., 399
 Wadell, J. P., Show Case & Cabinet Co. v. Michigan Central et al., 30
 Washburn-Crosby Milling Co., Inc., v. Southern Railway, 401
 Wells-Higman Co. v. St. Louis, Iron Mountain & Southern et al., 215
 Wheeler Lumber Bridge & Supply Co. v. St. Louis, Iron Mountain & Southern et al., 1256
 Whiteland Canning Co. v. Pittsburgh, Cincinnati, Chicago & St. Louis et al., 168
 Whiteland Canning Co. v. Pittsburgh, Cincinnati, Chicago & St. Louis et al., 816
 Wisconsin Pulp Wood Co. v. Great Northern, 816
 Wisconsin State Millers' Association v. Chicago, Milwaukee & St. Paul et al., 1215
 Wolf, Fred W., Co. v. Mallory Steamship Co. et al., 1215
 Wood, Alan, Iron & Steel Co. v. Pennsylvania Railroad et al., 520
 Wood, Alan, Iron & Steel Co. v. Pennsylvania Railroad et al., 1583
 Wood-Mosaic Flooring & Lumber Co. v. Louisville & Nashville, 399

RAILWAY CONSTRUCTION.

- Alabama & Northwestern, 132
 Alabama Great Southern, 453
 Alabama Roads, 221
 Alaska Midland, 940
 Alaska Roads, 1220
 Alberta Central, 1077
 Alberta Pacific, 1139, 1364
 Alberta, Peace River & Eastern, 700
 Alberta Railway & Irrigation Co., 1180
 Albion-Marshfield, 1139
 Algoma Central & Hudson Bay, 1220
 Algoma Eastern, 1220
 Altus, Roswell & El Paso, 221
 Anderson & Saline River, 320, 1077
 Arizona Eastern, 176
 Arizona Roads, 1139
 Arkansas Roads, 320, 1077
 Arkansas Valley Interurban, 1077
 Artesian Belt, 1262
 Asherton & Gulf, 221
 Astoria Southern, 1626
 Atchison, Topeka & Santa Fe, 176, 524, 1027, 1077, 1589
 Atlanta & Macon (Electric), 940, 1589
 Atlantic & Northeastern, 1139
 Atlantic & Western, 1077, 1139
 Atlantic Coast Line, 76, 320
 Aurora, Mendota & Western, 1077
- Bagotville & St. Lawrence, 320
 Baltimore & Ohio, 940, 1364
 Bamberg, Ehrhardt & Waterboro, 262
 Bangor & Aroostook, 221
 Barre Granite, 262
 Batesville & Northeastern, 1262
 Bartlesville Interurban, 700
 Bartlett Western, 1077
 Bassano (Electric), 360
 Batesville & Northeastern, 524
 Beaver, Meade & Englewood, 221, 262
 Beaverton & Willsburg, 176
 Beersville Coal & Railway Co., 1364
 Binghamton & Chattanooga, 453
 Binghamton & Southeastern, 408
 Birmingham & Southeastern, 1262
 Black Mt. Ry., 524
 Boston & Albany, 982, 1077
 Boston & Maine, 1139, 1262, 1364
 Boston Subways, 1139
 British Columbia & Dawson, 700
 British Columbia Electric, 453, 524
 Brownwood North & South, 780
 Bruce Mines & Algoma, 262
 Butouche & Western, 1220
 Buffalo, Rochester & Pittsburgh, 524
 Burrard Inlet Tunnel & Bridge Company, 982
 Butte, Anaconda & Pacific, 1139
 Cairo, Trumann & Southern, 320
- California Air Line, 360
 Cambria & Clearfield, 453
 Camino, Placerville & Lake Tahoe, 36
 Campbellford, Lake Ontario & Western, 824, 1077
 Canada & Gulf Terminal, 940
 Canadian Eastern Construction Co., 262
 Canadian Northern, 36, 76, 176, 360, 524, 453, 700, 824, 982, 1027, 1078, 1626
 Canadian Northern Alberta, 824
 Canadian Northern Montreal Tunnel & Terminal Company, 700, 982
 Canadian Northern Pacific, 524, 1078
 Canadian Northern Saskatchewan, 524
 Canadian Northern System Terminals, Ltd., 1626
 Canadian Pacific, 176, 221, 320, 453, 524, 700, 780, 824, 871, 1027, 1139, 1180, 1262, 1364, 1589, 1626
 Canadian Roads, 221, 982, 1139
 Canadian Roads (Electric), 1027
 Canadian Terminal, 1139
 Cape Charles, 824
 Carolina, Clinchfield & Ohio, 824, 940, 1220, 1262
 Cary North & South, 262, 700
 Catskill Traction Co., 176
 Cedar Rapids & Iowa City, 871
 Central California, 176
 Central of Canada, 320, 453, 982
 Central Illinois, 132
 Central Pacific, 36, 176, 982
 Central Railroad of New Jersey, 940
 Central Vermont, 262
 Charlotte Harbor & Northern, 453
 Chattanooga, Rome & Atlanta Interurban, 1027
 Cherryvale, Oklahoma & Texas, 1220
 Chesapeake & Ohio, 262, 1262
 Chestermere-Calgary Suburban, 525
 Chicago & Eastern Illinois, 176, 982, 1220
 Chicago & North Western, 453, 780
 Chicago & Wabash Valley, 221
 Chicago, Burlington & Quincy, 221, 982
 Chicago, Joliet & Kansas City, 262
 Chicago, Milwaukee & Puget Sound, 76, 525, 700, 780, 982, 1139, 1180, 1262, 1364, 1626
 Chicago, Milwaukee & St. Paul, 525, 700, 982, 1078, 1139
 Chicago, Ottawa & Peoria, 453
 Chicago, Paducah & Thebes, 262
 Chicago, Rock Island & Pacific, 1139
 Chicago, St. Paul, Minneapolis & St. Paul, 408
 Cincinnati, Licking Valley & Virginia, 1220
 Cincinnati, Louisville, Lexington & Maysville Traction, 1220
 Cincinnati, New Orleans & Texas Pacific, 1262, 1364, 1589
 Clarksburg & Philippi Traction Company, 320
 Clarksburg & Weston, 780
- Clarksburg Northern, 36
 Clear Lake, 1180
 Clinton & Oklahoma Western, 320, 408, 940
 Colorado & Southern, 1139
 Colorado, Texico & Aransas Pass, 1220
 Columbus, Chattahoochee Valley & Atlanta, 1589
 Columbus, Chattahoochee Valley & Gulf, 824
 Concord & Montreal, 1262
 Covington, Big Bone & Carrollton, 453
 Crosbyton-South Plains, 408, 1078
 Crossett, Monticello & Northern, 871
 Crows Nest Pass (Electric), 360
 Crystal City & Uvalde, 221, 320
 Cumberland Valley, 525
 Cumberland Valley & Interstate (Electric), 940
 Cuyuna Northern, 525
- Delaware & Hudson, 36
 Delaware, Lackawanna & Western, 76, 262
 Denver & Rio Grande, 525, 780, 982
 Denver, Laramie & Northwestern, 525, 1139
 Detroit & Mackinac, 76
 Dodge City & Cimarron Valley, 1027
 Dominion Atlantic, 453, 1027, 1626
 Duluth & Northern Minnesota, 36
 Duluth, Winnipeg & Pacific, 1027
 Dunlap Northern & Pacific, 1078
 Durham & South Carolina, 871
- Eastern Illinois & Peoria, 1589
 Eastern Shore Power, Light & Railway Company, 320
 East Texas Traction, 701
 Edmonton, Dunvegan & British Columbia, 408, 1078, 1180
 Elberton & Eastern, 1262, 1364
 Elgin Terminal, 525, 780
 Elkin & Allegheny, 176, 780, 1221
 El Paso & Southwestern, 1180, 1262
 Enid, Ochiltree & Western, 408
 Erie Railroad, 76, 132, 408, 525, 824, 1027, 1180
 Esquimalt & Nanaimo, 320, 1262
 Estacado & Gulf, 871
 Eufaula & Chattahoochee Valley, 453
- Fairchild & Northeastern, 132, 221, 824
 Fairmont & Clarksburg, 780
 Fairmont & Clarksburg Traction Company, 320
 Fairmont & Northern, 780
 Farmers' Grain & Shipping Co., 525
 Fernley & Lassen, 1262
 Flemington, Hinesville & Western, 1139
 Fort Smith & Western, 263
 Fort Smith, Arkoma & Wilburton, 701
 Fredericton & Grand Lake Coal & Railway Company, 701, 1139, 1589
 Frontier & Western, 1027
 Frontier Terminal, 1027
- Gainesville & Northwestern, 408
 Garrett County (Electric), 701
 Gatineau & Ungava, 1139
 Georgia & Alabama, 176
 Georgia, Alabama & Western, 263
 Georgia Coast & Piedmont, 1221
 Georgian Bay & Seaboard, 1180
 Georgia Roads, 982
 Glengary & Stormont, 263, 701
 Glenora & Western, 221, 320
 Grand Junction-Paradox Development, 132
 Grand Lake & Belle River, 1139
 Grand Trunk, 132, 321, 780, 1027, 1139, 1221, 1262, 1364
 Grand Trunk Pacific, 321, 408, 525, 701, 871, 1221
 Grand Trunk Pacific Saskatchewan, 408, 525, 1221
 Great Northern, 221, 263, 321, 453, 824, 1078, 1180, 1589
 Greenville & Whitewright Northern Traction, 360
 Greenville Light & Water Company, 701
 Gulf, Colorado & Santa Fe, 525, 824
 Gulf Lines Connecting, 263
 Gulf, Texas & Western, 360, 408, 871, 1364
- Ha Ha Bay, 1078
 Harriman, Knoxville & Eastern, 780
 Holton Interurban, 824
 Houston & Texas Central, 263, 408
 Hudson Bay Railway, 221, 360, 453, 940, 1139, 1262, 1626
 Hutchinson & Northern, 780
 Hutchinson & Western Interurban, 780, 1262
- Illinois Central, 36, 408
 Intercolonial, 701, 1139
 International & Great Northern, 321
 Iowa & Southwestern, 76
 Iowa Short Line, 360
- Jacksonville, McRae & Dublin, 1078
 Jacksonville, McRae & Northern, 780
 Joliet & Lake Manuan Colonization, 1027, 1626
 Jonesboro, Lake City & Eastern, 408
- Kansas City & Memphis, 221, 1078, 1140
 Kansas City, Clay County & St. Joseph, 221
 Kansas City, Mexico & Orient, 36, 408, 1262, 1626
 Kansas City Terminal Railway, 263
 Kansas, Oklahoma & Southwestern, 1221, 1364
 Karwatha Transportation Co., 525
 Kaslo & Slocan, 1364
 Kenilworth & Helper, 525
 Kettle Valley, 453, 780, 871, 1027, 1181
- Kingston & Pembroke, 1181
 Kinston Terminal, 701
 Kirkland-Redmond Railway, Light & Power Co., 36
 Kissimmee, Narcoossee & East Coast, 263
 Kittitas Railway & Transportation Company, 701
 Knoxville, Sevierville & Eastern, 1589
- Lac Seul, Rat Portage & Keewatin, 453
 Lake Erie & Eastern, 1027, 1221
 Lake Erie & Northern (Electric), 221, 321, 1364
 Lake Erie & Ohio, 132
 Lake Erie & Youngstown (Electric), 1078
 Lake Shore & Michigan Southern, 1221
 Lake Superior & South Dakota, 1078
 Lawton Railway & Mining Company, 1181
 Lehigh & New England, 1262, 1627
 Lexington & Eastern, 263, 1262
 Liberty-White, 76
 Lindsay & Minden, 263
 Little Falls & Johnstown, 221
 Live Oak, Perry & Gulf, 1078
 London & Northwestern, 525
 Long Fork Railroad, 525
 Long Island, 940, 1221
 Louisiana Purchase, 941
 Louisiana Roads, 453
 Louisiana Roads (Electric), 263
 Louisiana Western, 176
 Louisville & Nashville, 176, 263, 321, 408, 453, 701, 824, 982, 1078, 1221, 1262, 1589, 1627
 Lynchburg-Danville & Carolina, 76
- Mahar (Electric), 360
 Mahoning & Schenango Railway & Light Company, 321
 Maine Central, 132, 221, 701, 1027, 1262, 1589
 Maine Roads (Electric), 780
 Manitoba & Nelson, 1078
 Manitoba Northern, 872
 Maxton, Alma & Southbound, 982
 Medicine Hat (Electric), 408
 Memphis & Pensacola, 1263
 Memphis Railway Bridge & Terminal Company, 76
 Meridian & Memphis, 941, 1589
 Mexican Pacific, 176, 824
 Mexican Roads, 36, 454, 1365
 Mexican Southern, 263, 321
 Mexico & North Western, 321
 Mexico Northwestern Pacific, 525
 Mexico Northwestern Transportation Co., 525
 Mexico, San Antonio & Gulf, 321
 Mexico Tramways Company, 1221
 Midland Continental, 176, 1078
 Midland of Manitoba, 263, 1589
 Milwaukee, Peoria & St. Louis, 176
 Minneapolis & St. Louis, 360
 Minneapolis, St. Paul & Sault Ste. Marie, 263, 1078
 Minnesota, Dakota & Western, 176, 408
 Miramichi Valley, 1140, 1365
 Missouri & North Arkansas, 982
 Missouri, Arkansas & Gulf, 37, 132
 Missouri, Kansas & Texas, 408, 701, 824
 Missouri, Oklahoma & Gulf, 132, 525, 780, 824, 872, 1589
 Monongahela Valley Traction, 780
 Montreal Transcontinental, 176
 Montreal Tunnel Co., Ltd., 525, 824
 Montrose-Paradox Railroad Construction Co., 176
 Morgan's Louisiana & Texas, 176
 Morgantown Interurban, 701
 Mountain Quarries Company's Line, 408
 Mount McKay & Kakabeka Falls, 701
 Murfreesboro Electric, 824
 Muscatine North & South, 454
- Natchez Eastern, 263
 National Railways of Mexico, 37, 360, 780, 941, 1078
 Navajo Southern, 321
 Nebraska Roads, 360
 Nebraska & Northwestern, 1627
 Nerepis & Long Island, 1140
 Nevada & California, 176
 New Brunswick Coal & Railway, 221
 New Iberia & Northern, 1078
 New Iberia, Lafayette & Northeastern, 780
 New Orleans & Grand Island, 525
 New Orleans & Western (Electric), 1627
 New Orleans, Clinton & Birmingham, 780
 New Orleans, Mobile & Chicago, 176, 982
 New Orleans, Natalbany & Natchez, 321
 Newton, Kansas & Nebraska, 1263
 New York Connecting, 454
 New York, New Haven & Hartford, 1140, 1181, 1263
 New York, Philadelphia & Norfolk, 824
 New York Subways, 133, 176, 221, 408, 824, 941, 982, 1140
 New York, Westchester & Boston, 37, 1181, 1263
 Niobrara & Sioux City, 780
 Nipissing Central (Electric), 408
 Norfolk & Western, 176, 263, 982
 Norfolk Southern, 221
 North & South Carolina, 824
 North Buffalo Railroad, 133
 North Lanark Railway, 982
 Northern Pacific, 76, 263, 321, 361, 454, 872
 North Railway, 1627
 North Shore Railway, 1365
 North Shore Railway & Navigation Company, 1140, 1365

RAILWAY CONSTRUCTION—Continued.

- Northwestern Pacific, 321, 1589
Nova Scotia Railway, 408
- Ocilla Southern, 701, 1078
Ohio & Kentucky, 77, 321
Oklahoma & Golden City, 321
Oklahoma-North Western, 77
Oklahoma Roads, 525
Oklahoma Roads (Electric), 1027
Orange & Northwestern, 221
Oregon & California, 176
Oregon & Southern (Electric), 824
Oregon Eastern, 37, 133, 176, 361, 408
Oregon Electric, 824
Oregon Roads, 1627
Oregon Short Line, 77, 133, 361, 408
Oregon-Washington Railroad & Navigation Co., 176, 1365
Oregon Western, 177
Ottawa & Lake McGregor, 454
Ottawa & St. Lawrence (Electric), 982
Ottawa & Ungava, 1140
Ottawa, Smith's Falls & Kingston, 526
Ozark Land & Timber Company's Road, 526
- Pacific & Peace, 516, 701
Pacific & Peace Railway Department Syndicate, 526, 701
Pacific Great Eastern, 526, 1078, 1365
Pacific Railway & Navigation Co., 177
Pacific, Trans-Canada & Hudson Bay, 263
Panhandle Pecos & Gulf of Texas, 37
Paris & Mount Pleasant, 1263
Pecos Valley Southern, 77, 321, 409, 1221
Pembroke, Red Springs & Northern, 77
Peninsular Railway (Electric), 77
Pennsylvania, 454, 780
Pennsylvania System, 780
Pere Marquette, 1181
Petaluma & Santa Rosa (Electric), 824
Philadelphia, Baltimore & Washington, 454
Piedmont & Northern (Electric), 824
Pincher, Cardston & Montana, 1140
Pine Bluff, Sheridan & Southern, 1079
Pittsburgh & Lake Erie, 1221
Porcupine-Rand Belt (Electric), 454
Port Bolivar Iron Ore, 263
Port Huron & Northern, 872
Portland & West Coast Railroad & Navigation Company, 77
Prince Edward & Hastings, 409
- Quanah, Acme & Pacific, 77, 409
Quanah, Seymour, Dublin & Rockport, 781
Quebec & Saguenay, 409, 825
Quebec Central, 983
- Raleigh, Charlotte & Southern, 1079
Rangeley Lakes & Megantic, 133, 221
Richmond & Rappahannock River (Electric), 983
Richmond, Urbana & Peninsula, 701
Rio Grande & Eagle Pass, 321
Roaring Fork, 77
- St. Croix Docks & Railway, 1140
St. John & Ophir, 701, 781
St. John & Quebec, 526, 1263
St. John Valley, 263, 321, 1181
St. Louis & San Francisco, 221, 781, 1079, 1140, 1181
St. Louis, Arkansas & Pacific, 37
St. Louis, Brownsville & Mexico, 37, 361, 1221, 1365, 1589
St. Louis, Iron Mountain & Southern, 526
St. Louis, Peoria & Northwestern, 781
St. Louis Southwestern, 526
Sacramento Southern, 177
Sacramento Valley (Electric), 1181
Sales, Falls City & Western, 263
San Antonio & Aransas Pass, 454, 983
San Antonio & Northern, 872
San Antonio Belt Terminal Company, 1181
San Antonio, Rockport & Mexican, 37, 825, 1263
San Antonio, Uvalde & Gulf, 526, 983
San Benito & Rio Grande Valley, 872
San Diego & Southeastern (Electric), 526
San Diego Southern, 526
San Diego & Cuyamaca, 526
Sandy River & Rangeley Lakes, 941, 983, 1263
Sandy Valley & Elkhorn, 222
San Francisco & Northern (Electric), 361
San Jose & Almaden (Electric), 37, 321
San Pedro, Los Angeles & Salt Lake, 526, 781, 1181
Saskatoon Transfer, 526, 1365
Savannah Southern, 37
Seaboard Air Line, 77
Seaboard & Moosehead, 1589
Sharpsville & Western, 1140
Sioux City, Mitchell & Pierre, 781
Southampton Railway, 1027, 1627
Southern Alberta, 454
Southern Illinois Railway & Power Company, 1140
Southern New England, 321, 454, 1027, 1140, 1263, 1365
Southern New England Railroad Corporation, 1263
Southern Pacific, 37, 177, 263, 983, 1263, 1589, 1627
Southern Pacific of Mexico, 177, 454, 941
Southern Railway, 263, 1181, 1589
Southern Railway & Navigation Co., 526
Southern New England, 526
Southern Traction Co., 526
Southwestern Traction & Power Company, 222, 321
Spalding-Springview, 526
Spokane, Portland & Seattle, 1181
Springfield & Central Illinois Traction, 321
Springfield Western (Electric), 526
Stamford & Eastern, 701
Stanton & Cave Bluff, 1627
Statesville Air Line, 133
Stuttgart & Rice Valley, 177
Sudbury-Copper Cliff Suburban, 263, 526
- Sugarland Railroad, 1140, 1627
Sullivan County Electric, 983
Sullivan County Railroad, 1263
Sussex, Studholm & Havelock, 1140
Syracuse, Watertown & St. Lawrence River (Electric), 872
- Tacoma Eastern, 1181
Tallahassee & Gulf, 983
Tallahassee & Montgomery, 1263
Tampa & Gulf Coast, 263
Temiskaming & Northern Ontario, 361, 409, 781, 825, 1140
Texas & Pacific, 701
Texas Central, 409
Texas Electric, 1221
Texas Roads, 781, 1079
Texas Roads (Electric), 526, 1265
Texas Southeastern, 454
Three Forks, Helena & Madison Valley, 825, 941
Tidewater Southern (Electric), 1181, 1365
Tidewater & Southern (Electric), 133, 1181
Tidewater & Transit, 1181
Toronto Suburban, 454
- Uintah, 1079
Union Pacific, 701, 1140, 1589
Utah Coal Railway, 263
Utah Roads, 133
Utah Roads (Electric), 321
Upalika & Southern, 527
Utah Coal Ry., 527
- Valdosta, Fort Gaines & Montgomery, 1181
Valley & Siletz, 263, 872
Vancouver, Frazer Valley & Southern, 454
Virginia-Carolina, 1627
Virginia & Kentucky, 264
Virginia Roads, 983
- Wabash, 264, 872, 983
Washington Roads, 983, 1181
Washington Roads (Electric), 1263
Washington Western, 1181, 1589
Wasiota & Black Mountain, 264
Waycross & Western, 454
Wenatchee Valley (Electric), 222
Western Canada Power Co., 527
Western Dominion, 1365
Western Maryland, 1221
Western New York & Pennsylvania, 454
Wichita Falls & Northwestern, 77, 177
Wichita Falls Route, 177, 264
Wichita, Kinsley, Scott City & Denver Air Line, 177
Williamson & Pond Creek, 983
Winnipeg Electric, 527
Winnipegosis & Northern, 701
Winnipeg, Salina & Gulf, 77, 133, 1079
- Yadkin River, 409, 825
Yampa Valley, 1627
Youngstown & Southern (Electric), 177

RAILWAY FINANCIAL NEWS.

- Alberta Railway & Irrigation, 1141
American Railways, 1182
Argentine Central, 1628
Arkansas, Oklahoma & Western, 222, 410
Artesian Belt Railroad, 782, 826, 1366
Asherton & Gulf, 222
Atchison, Topeka & Santa Fe, 38, 322, 410, 455, 702
Atlanta, Birmingham & Atlantic, 528, 873, 1080, 1628
Atlantic & Western, 1080
- Baltimore & Ohio, 78, 178, 1141, 1182
Bangor & Aroostook, 1182
Bartlett & Western, 1028
Bellingham Bay & British Columbia, 528
Birmingham & Northwestern, 873
Birmingham & Southeastern, 1141, 1264
Boston & Albany, 322, 873, 1141, 1590
Boston & Lowell, 78
Boston & Maine, 38, 134, 826, 1080, 1141, 1182, 1222, 1590
Boston & Providence, 1080, 1264
Boston Railroad Holding Co., 78
Bridgton & Saco River, 1590
Brooklyn Rapid Transit, 1366, 1590
Buffalo & Susquehanna, 134
Buffalo, Rochester & Pittsburgh, 38, 78
- California Northeastern, 264
Camino, Placerville & Lake Tahoe, 78
Canadian Northern, 942, 1182, 1628
Canada Southern, 873, 1080, 1590
Canadian Northern, 1222
Canadian Pacific, 134, 222, 455, 1182, 1222, 1366
Carolina, Clinchfield & Ohio, 826, 942, 1222, 1590
Central California Railway, 134
Central New England, 38, 826, 942
Central of Georgia, 873, 942, 1141, 1366
Central Pacific, 873, 984
Central Vermont, 1080
Chesapeake & Ohio, 78, 322, 361, 528
Chicago & Alton, 1264, 1366, 1628
Chicago & Eastern Illinois, 134, 178, 410
- Chicago & North Western, 38, 134, 264, 361, 942
Chicago & Western Indiana, 528, 1141
Chicago & West Michigan, 1141
Chicago Great Western, 1141
Chicago, Indianapolis & Louisville, 528, 942, 984
Chicago, Memphis & Gulf, 782, 1028
Chicago, Milwaukee & Puget Sound, 528
Chicago, Milwaukee & St. Paul, 222, 702, 873, 1264
Chicago River & Indiana, 1182
Chicago, Rock Island & Pacific, 134, 782
Chicago, St. Paul, Minneapolis & Omaha, 264, 322
Chicago, Terre Haute & Southeastern, 984
Cincinnati, Hamilton & Dayton, 178, 942
Cincinnati, New Orleans & Texas Pacific, 1222, 1264
Cincinnati Northern, 455
Cleveland & Pittsburgh, 38
Cleveland, Cincinnati, Chicago & St. Louis, 38, 455, 984
Colorado & Southern, 78, 178
Colorado Midland, 178
Colorado Springs & Cripple Creek District, 78
Concord & Montreal, 826, 1366
Connecticut River Railroad, 1590
Copper River & Northwestern, 873
Cripple Creek Central, 78, 1141
Cuba Railroad, 1590
- Dayton, Lebanon & Cincinnati, 361, 455
Delaware & Hudson, 1141
Delaware, Lackawanna & Western, 222, 410, 702
Denver & Rio Grande, 78, 178, 322, 528, 782, 826, 984, 1080
Denver, Laramie & Northwestern, 410, 1141, 1264, 1366, 1590
Denver, Northwestern & Pacific, 702, 1080, 1182
Des Plains Valley Railroad, 38
Detroit, Toledo & Ironton, 38, 322, 455, 873, 1142, 1182, 1590
Duluth, Missabe & Northern, 1222
- Eagles Mere Railroad, 1590
- East Pennsylvania Railroad, 873
Elkin & Allegheny, 1222
Erie, 410, 826, 873, 942, 1628
- Fitchburg Railroad, 38, 134
Florida East Coast, 1028
Florence & Cripple Creek, 78
Florida Railway, 38
Frankfort & Cincinnati, 178, 1142
- Galveston, Harrisburg & San Antonio, 1628
Galveston, Houston & Henderson, 1080, 1182
Georgia & Florida, 455, 702, 782, 984
Georgia Coast & Piedmont, 1222, 1366
Grand Trunk, 134, 178, 322, 782, 984, 1028
Grand Trunk Pacific, 38, 178, 322, 455, 1080
Great Northern, 1628
- Hampden Railroad, 178
Hocking Valley, 1628
Houston & Brazos Valley, 984
Howe Sound & Northern, 455
Hudson & Manhattan, 942
- Illinois Central, 782, 1590
Illinois Southern, 410
Interborough Rapid Transit, 1080, 1222, 1366
International & Great Northern, 264
Interoceanic of Mexico, 1222
- Jonesboro, Lake City & Eastern, 528
- Kalso & Slocan, 1182
Kanawha & Michigan, 1628
Kansas City & Memphis Railway, 410
Kansas City, Mexico & Orient, 38, 264, 528, 782, 942, 984, 1182, 1264, 1366
Kansas City Southern, 1182
Kootenay Valley, 1222
- Lake Erie & Eastern, 1628
Lake Shore & Michigan Southern, 361, 528
Lancaster, Oxford & Southern, 826
Laramie, Hahn's Peak & Pacific, 1590
Lehigh & Hudson, 984

Lehigh Valley, 134, 361
 Louisville & Nashville, 178, 1080
 Louisville, Henderson & St. Louis, 178

Maine Central, 38, 410, 1182, 1222, 1590
 Mexico Northwestern, 1590
 Michigan Central, 873, 1080
 Milwaukee, Sparta & North Western, 942
 Minneapolis & St. Louis, 78, 222, 361
 Minneapolis, St. Paul & Sault Ste. Marie, 782
 Missouri & North Arkansas, 826, 873, 1028, 1182, 1366
 Missouri, Kansas & Texas, 361, 826, 942, 1080
 Missouri Pacific, 455, 528, 782, 1366

National Railways of Mexico, 222, 942
 Nevada & California, 873
 New England Investment & Security Company, 1590

New England Railroad, 826
 New Orleans, Mobile & Chicago, 134, 264
 New York & Harlem, 38, 78, 942, 1182
 New York & Ottawa, 264
 New York Central & Hudson River, 38, 78, 134, 178, 264, 528, 826, 873, 1028, 1080, 1142, 1628
 New York, New Haven & Hartford, 78, 178, 702, 782, 826, 1028, 1080, 1142, 1366, 1590
 New York, Ontario & Western, 264, 1222
 New York, Philadelphia & Norfolk, 826, 1182, 1590
 New York State Railways, 1080, 1182, 1264
 Norfolk & Western, 134, 1222
 Norfolk Southern, 455, 702, 942, 1028
 Northern Pacific, 702

Ocilla Southern, 178
 Ohio River & Western, 826, 873
 Oklahoma Central, 873

Old Colony Railroad, 38
 Oregon Eastern, 264
 Oswego & Rome, 1028

Pacific Railway & Navigation, 134
 Paris & Mount Pleasant, 1264
 Pascagoula Northern, 361
 Pennsylvania, 782, 826, 873, 1142, 1366
 Pennsylvania Company, 38, 361, 528
 Pere Marquette, 78, 410, 455, 826, 873, 984, 1080, 1142, 1182, 1264, 1590, 1628
 Philadelphia & Baltimore Central, 1590
 Philadelphia & Reading, 410
 Pittsburgh & Lake Erie, 455, 528, 1628
 Pittsburgh, Cincinnati, Chicago & St. Louis, 826
 Pittsburgh, McKeesport & Youghiogeny, 528
 Pittsburgh, Summerville & Clarion, 702, 826
 Placerville & Lake Tahoe, 78
 Portland Terminal, 528

Quebec & Lake St. John, 942
 Quebec Central, 455, 1366
 Quebec Oriental, 826, 1142

Raleigh, Charlotte & Southern, 1028
 Reading & Columbia, 38
 Reading Company, 38, 1264
 Rome, Watertown & Ogdensburg, 1028
 Rutland Railroad, 78, 264, 942, 984, 1080, 1142

St. Johnsbury & Lake Champlain, 38
 St. Louis & San Francisco, 782, 942, 1080, 1142, 1264
 St. Louis, Iron Mountain & Southern, 1080
 St. Louis, Rocky Mountain & Pacific, 1222
 St. Louis Southwestern, 134, 322, 361, 528, 782, 984, 1080, 1182, 1222, 1590
 Sanford & Troy, 410
 San Pedro, Los Angeles & Salt Lake, 78
 Seaboard Air Line, 1222, 1264, 1366, 1590
 Seaboard Company, 38

Shamokin, Sunbury & Lewisburg, 984
 Southampton Railway, 1182
 Southern New England, 1366
 Southern Pacific, 38, 134, 264, 322, 782, 873, 984, 1628
 Southern Railway, 322
 South Ontario & Pacific, 134
 Stephenville North & South Texas, 361
 Sugarland Railroad, 1142, 1628
 Syracuse, Binghamton & New York, 410

Tallassee & Montgomery, 1264
 Tampa & Gulf Coast, 1628
 Temiskaming & Northern Ontario, 782
 Terminal Railroad Association of St. Louis, 361, 942
 Texas & Pacific, 1028, 1590
 Tide Water Southern, 1182
 Toledo & Ohio Central, 942
 Toledo, Columbus & Ohio, 38
 Toledo, St. Louis & New Orleans, 528

Union Pacific, 826, 1080
 Utica & Black River, 1028

Valdosta, Fort Gaines & Montgomery, 1182
 Verde Valley Railroad, 1590
 Virginian Railway, 134, 178, 264, 782, 826, 1028, 1142

Wabash, 134, 178, 222, 264, 361, 826, 942, 1028, 1080, 1264, 1628
 Wabash-Pittsburgh Terminal, 873, 1366, 1628
 Wellsburg & State Line Railroad, 361
 Western Maryland, 38
 West Shore, 826
 West Side Belt, 1628
 Wheeling & Lake Erie, 942, 1366
 Winnipeg, Salina & Gulf, 1080, 1182
 Wisconsin & Michigan, 134, 782